

<211> 536  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(536)  
 <223> n = A,T,C or G

<400> 69  
 actagtccag tgtggtggaa ttccattgtg ttggggggctc tcaccctcct ctctgtcagc 60  
 tccagctttg tgctctgcct ctgaggagac catggcccag catctgagta ccctgctgct 120  
 cctgctggcc accctagctg tggccctggc ctggagcccc aaggaggagg ataggataat 180  
 cccgggtggc atctataacg cagacctcaa tgatgagtgg gtacagcgtg cccttcactt 240  
 cgccatcagc gagtataaca aggccaccaa agatgactac tacagacgtc cgctgcgggt 300  
 actaagagcc aggcaacaga ccgttggggg ggtgaattac ttcttcgacg tagagggtggg 360  
 ccgaaccata tgtaccaagt cccagcccaa cttggacacc tgtgccttcc atgaacagcc 420  
 agaactgcag aagaaacagt tgtgtctctt cgagatctac gaagttccct ggggagaaca 480  
 gaangtccct gggtgaaatc caggtgtcaa gaaatcctan ggatctgttg ccaggc 536

<210> 70  
 <211> 477  
 <212> DNA  
 <213> Homo sapien

<400> 70  
 atgacccta acagggggcc tctcagccct cctaatagacc tccggcctag ccatgtgatt 60  
 tcacttccac tccataacgc tctcatact aggcctacta accaacacac taaccatata 120  
 ccaatgatgg cgcgatgtaa cagagaaaag cacataccaa ggccaccaca caccacctgt 180  
 ccaaaaaggc cttcgatacg ggataatcct atttattacc tcagaagtgt ttttcttcgc 240  
 agggattttt ctgagccctt taccactcca gcctagcccc taccceccaa ctaggagggc 300  
 actggccccc aacaggcatc accccgctaa atcccctaga agtcccactc ctaaacacat 360  
 ccgtattact cgcacagga gtatcaatca cctgagctca ccatagtcta atagaaaaca 420  
 accgaaacca aattattcaa agcactgctt attacaattt tactgggtct ctatttt 477

<210> 71  
 <211> 533  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(533)  
 <223> n = A,T,C or G

<400> 71  
 agagctatag gtacagtgtg atctcagctt tgcaaacaca ttttctacat agatagtact 60  
 aggtattaat agatatgtaa agaaagaaat cacaccatta ataatggtaa gattggttta 120  
 tgtgatttta gtggtatttt tggcaccctt atatatgttt tccaaacttt cagcagtgat 180  
 attattttcca taacttaaaa agtgagtgtg aaaaagaaa tctccagcaa gcatctcatt 240  
 taaataaagg tttgtcatct ttaaaaatac agcaatatgt gactttttta aaaagctgtc 300  
 aaataggtgt gaccctacta ataattatta gaaatacatt taaaaacatc gagtacctca 360  
 agtcagtttg ccttgaaaaa tatcaaatat aactcttaga gaaatgtaca taaaagaatg 420  
 cttcgtaatt ttggagtang aggttccttc ctcaattttg tatttttaaa aagtacatgg 480  
 taaaaaaaaa aattcacaaac agtatataag gctgtaaaaat gaagaattct gcc 533

<210> 72  
 <211> 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(511)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttg	ttggctggag	gagctgtgga	180
aaacatggan	agattgggtgc	tgganatcgc	cgtggctatt	cctcattggt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

&lt;210&gt; 73

&lt;211&gt; 499

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(499)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtgc	ttcagtgtg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggt	ggagctggg	ccagcaccag	tggcagctct	gggtgcctgtg	gtttctccta	180
caagttagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	agggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaa	aaaaaaagg	cggccgctcg	360
antctagagg	gcccgtttta	accogctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccngtgcct	tccttgaccc	tggaagtgcc	cactcccact	480
gtcctttcct	aantaaaat					499

&lt;210&gt; 74

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(537)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tccaggccca	cggctcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaacag	tattacagtg	tcctaccact	ctaatacaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360
cagtttgctt	gatataattg	ttgatattaa	gattcttgac	ttatatattg	aatgggttct	420

actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat 480  
tctacaatgt agaaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtccccgt 537

<210> 75  
<211> 467  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(467)  
<223> n = A,T,C or G

<400> 75  
caaanacaat tgttcaaaag atgcaaatag tacactactg ctgcagctca caaacacctc 60  
tgcatattac acgtacctcc tcctgctcct caagtagtgt ggtctatttt gccatcatca 120  
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180  
tggcacaagg aggccatctt ttcctcatcg gttattgtcc ctagaagcgt cttctgagga 240  
tctagtggg ctttctttct gggtttgggc catttcantt ctcagtgtgt tactattcta 300  
tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360  
caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420  
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn 467

<210> 76  
<211> 400  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(400)  
<223> n = A,T,C or G

<400> 76  
aagctgacag cattcgggcc gagatgtctc gctccgtggc cttagctgtg ctgcgcgtac 60  
tctctctttc tggcctggag gctatccagc gtactccaaa gattcaggtt tactcacgtc 120  
atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg ttcatccat 180  
ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag 240  
acttgtcttt cagcaaggac tggcttttct atctcttgta ctacactgaa ttcaccccca 300  
ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360  
ttnagtggga tcganacatg taagcagcan catgggaggt 400

<210> 77  
<211> 248  
<212> DNA  
<213> Homo sapien

<400> 77  
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60  
ccagctgccc cggcggggga tgcgaggctc ggagcaccct tgcccggctg tgattgctgc 120  
caggcaactgt tcatctcagc ttttctgtcc ctttgtcccc ggcaagcgct tctgtctgaa 180  
gttcatatct ggagcctgat gtcttaacga ataaaggctc catgctccac ccgaaaaaaa 240  
aaaaaaaaa 248

<210> 78  
<211> 201  
<212> DNA  
<213> Homo sapien

```

<400> 78
actagtcag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca      60
tcaccagac ccgcctctgc ccgtgccccca cgctgctgct aacgacagta tgatgcttac      120
tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttgttt ataaatgcct      180
gatttaaaaa aaaaaaaaaa a                                     201

```

```

<210> 79
<211> 552
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G

```

```

<400> 79
tcctttttgtt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg      60
tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt      120
cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag      180
tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt      240
atgcaagtta gtaattactc aggggttaact aaattacttt aatatgctgt tgaacctact      300
ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga      360
taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tggaaattta      420
ttcccaggaa tatgggggtc atttatgaat antaccggg anagaagttt tgantnaaac      480
cngttttggt taatacgtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa      540
aaaaaaaaaa aa                                              552

```

```

<210> 80
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 80
acagggattt gagatgctaa ggccccagag atcgtttgat ccaacctctt tattttcaga      60
ggggaaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct      120
cacacagact ccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt      180
gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta      240
aggttaaact ttcccacca gaaaaggcaa cttagataaa atcttagagt actttcatac      300
tcttctaagt cctcttcag cctcactttg agtcctcctt gggggttgat aggaantntc      360
tcttggtttt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat      420
gctgaaaaaa ttaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa      476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```



```

<400> 81
tttttttttg tatgcctcn ctgtggngtt attgttgctg ccaccttgga ggagcccagt    60
ttcttctgta tctttctttt ctgggggatc ttcttggtc tgccctcca ttcccagcct    120
ctcatcccca tcttgcaatt ttgctagggt tggaggcgct ttcttggtag cccctcagag    180
actcagtcag cgggaataag tcctaggggt ggggggtgtg gcaagccggc ct          232

```

```

<210> 82
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 82
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc    60
agtaccagta ccaataacat gccagtgccg gtgccagcac cagtgggtggc ttcagtgtctg    120
gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggt ggagctggtg    180
ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgatatt tttagatatt    240
gttaatcctg ccagtccttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac    300
agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg    360
ccatttcaaa aaaaaaaaaa aaa          383

```

```

<210> 83
<211> 494
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 83
accgaattgg gaccgctggc ttataagcga tcatgtcctc cagtattacc tcaacgagca    60
gggagatcga gtctatacgc tgaagaaatt tgaccgatg ggacaacaga cctgctcagc    120
ccatcctgct cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa    180
acgcttcaag gtgctcatga cccagcaacc gcgccctgtc ctctgagggt ccttaaaactg    240
atgtcttttc tgccacctgt taccctcgg agactccgta accaaactct tcggactgtg    300
agccctgatg cctttttgcc agccatactc tttggentcc agtctctcgt ggcgattgat    360
tatgcttggt tgaggcaatc atgggtggcat caccatnaa gggaacacat ttganttttt    420
tttncatat tttaaattac naccagaata nttcagaata aatgaattga aaaactctta    480
aaaaaaaaaa aaaa          494

```

```

<210> 84
<211> 380
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G

```

```

<400> 84

```

```

gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca      60
agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattcccccag    120
gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggtctctgg      180
gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctggtg      240
gtgctgctcc tegtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg      300
ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc      360
agcgtnnccg cctcatccgg                                     380

```

```

<210> 85
<211> 481
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G

```

```

<400> 85
gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggcctctcgc ttcataccgc      60
tnccatcgtc atactgtagg ttggccacca cctcctgcat cttggggcgg ctaatatcca    120
ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg      180
tgtgaaagga tctccagaag gagtgctcga tcttccccac acttttgatg actttattga    240
gtcgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc      300
ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggt gnagtctcac      360
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggnggaa      420
aaagaacacc tcttggaagt gctngccgct cctcgteent tggtggnngc gcntnccctt      480
t                                                                481

```

```

<210> 86
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

```

```

<400> 86
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt      60
acttggaaaa gcaacttnaa gcctggacac tgggtattaaa attcacaata tgcaaacatt    120
taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg      180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga      240
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt      300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttggggagctg      360
atatntgagc ggaagantag cttttctact tcaccagaca caactccttt catattggga      420
tgttnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg                472

```

```

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

```

```

<400> 87
agaaaccagt atctctnaaa acaacctctc ataccttggt gacctaatTT tgtgtgcgtg      60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg      120
cctcttttgt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct      180
ttgtcttctg tgtaaatggt actagagaaa acacctatnt tatgagtcaa tctagttngt      240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg      300
ggggacaaaag aaaagcnaaa ctgaacatna gaaacaattn cctggtgaga aattncataa      360
acagaaattg ggtngtatat tgaaanannng catcattnaa acgttttttt ttt              413

```

```

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

```

```

<400> 88
cgcagcgggt cctctctatc tagctccagc ctctcgctg ccccaactccc cgcgtcccgc      60
gtcctagccn accatggccg ggcccctgcg cgccccgctg ctctgtgtgg ccatacctggc      120
cgtggccctg gccgtgagcc ccgcggccgg ctccagtccc ggcaagccgc cgcgcctggg      180
gggaggccca tggaccccg gtggaagaag aagggtgtgc gcgtgcactg gactttgccg      240
tcgcnanta caacaaaccc gcaacnactt ttaccnagcn cgcgtgcag gttgtgccgc      300
cccaancaaa ttgttactng gggtaantaa ttcttggaag ttgaacctgg gccaaacnng      360
tttaccagaa ccnagccaat tngaacaatt nccccccat aacagccct tttaaaaagg      420
gaancantcc tgntcttttc caaatTTT              448

```

```

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

```

```

<400> 89
gaattttgtg cactggccac tgtgatggaa ccattgggcc aggatgcttt gagtttatca      60
gtagtgattc tgccaaagtt ggtgtttaa catgagtatg taaaatgtca aaaaattagc      120
agaggtctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt      180
ctcagtgaca agttnnttct gatgcgaagt tctnattcca gtgttttagt cctttgcatc      240
tttnatgtn agacttgcc ctntnaaatt gcttttgtnt tctgcaggta ctatctgtgg      300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn      360
aattctctcc catannaaa acccangccc ttggganaat ttgaaaaang gntccttcnn      420
aattcnnana anttcagntn tcatacaaca naacngganc ccc              463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)

```

<223> n = A,T,C or G

<400> 90

agggattgaa	ggtctntnt	actgtcggac	tgttcanca	ccaactctac	aagttgctgt	60
cttccactca	ctgtctgtaa	gcntnttaac	ccagactgta	tcttcataaa	tagaacaaat	120
tcttcaccag	tcacatcttc	taggaccttt	ttggattcag	ttagtataag	ctcttcact	180
tcctttgtta	agacttcata	tggtaaagtc	ttaagttttg	tagaaaggaa	tttaattgct	240
cgttctctaa	caatgtcctc	tccttgaagt	atttggtgta	acaaccacc	tnaagtcct	300
ttgtgcatcc	attttaaata	tacttaatag	ggcattggtn	cactagggtta	aattctgcaa	360
gagtcactctg	tctgcaaaag	ttgcgttagt	atatctgcc			400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcctcttt	gactaccgtg	tgccagtgc	ggtgattctc	acacacctcc	nnccgctctt	180
tgtggaaaaa	ctggcacttg	nctggaacta	gcaagacatc	acttacaat	tcaccacga	240
gacacttgaa	aggtgtaaca	aagcgactct	tgcatgtgctt	tttgtccctc	cggcaccagt	300
tgtcaatact	aaccgcgtgg	tttgccctcca	tcacatttgt	gatctgtagc	tctggataca	360
tctcctgaca	gtactgaaga	acttcttctt	ttgtttcaaa	agcaactctt	ggtgcctggt	420
ngatcagggt	cccatttccc	agtcogaatg	ttcacatggc	atatnttact	tcccacaaaa	480

<210> 92

<211> 477

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(477)

<223> n = A,T,C or G

<400> 92

atacagccca	natcccacca	cgaagatgag	cttgttgact	gagaacctga	tgcggtcact	60
ggtcccgcgtg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgcactcctt	120
cccacgcagg	cagcagcggg	gccggtcaat	gaactccact	cgtggcttgg	ggttgacggt	180
taantgcagg	aagaggctga	ccacctcgcg	gtccaccagg	atgcccgact	gtgcgggacc	240
tgacagcga	ctcctcgatg	gtcatgagcg	ggaagcgaat	gangcccagg	gccttgccca	300
gaaccttccg	cctgttctct	ggcgctcacct	gcagctgctg	ccgctnacac	tcggcctcgg	360
accagcggac	aaacggcggt	gaacagccgc	acctcacgga	tgcccantgt	gtcgcgctcc	420
aggaacggcn	ccagcgtgtc	caggtcaatg	tcgggtgaanc	ctccgcgggt	aatggcg	477

<210> 93

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

&lt;222&gt; (1)...(377)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 93

gaacggctgg	accttgccctc	gcattgtgct	gctggcagga	ataccttggc	aagcagctcc	60
agtccgagca	gccccagacc	gctgccgccc	gaagctaagc	ctgcctctgg	ccttcccctc	120
cgcctcaatg	cagaaccant	agtgggagca	ctgtgtttag	agttaagagt	gaacactgtn	180
tgattttact	tgggaatttc	ctctgttata	tagcttttcc	caatgctaata	ttccaaacaa	240
caacaacaaa	ataacatggt	tgctgtttna	gttgataaaa	agtangtgat	tctgtatnta	300
aagaaaatat	tactgttaca	tatactgctt	gcaanttctg	tattttattg	tnctctggaa	360
ataaatatat	tattaa					377

&lt;210&gt; 94

&lt;211&gt; 495

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(495)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 94

ccctttgagg	ggttagggtc	cagttccag	tggaagaaac	aggccaggag	aantgcgtgc	60
cgagctgang	cagatttccc	acagtgaccc	cagagccctg	ggctatagtc	tctgacccct	120
ccaaggaaag	accaccttct	ggggacatgg	gctggagggc	aggacctaga	ggcaccaagg	180
gaaggcccca	ttccggggct	gttccccgag	gaggaaggga	aggggctctg	tgtgccccc	240
acgaggaana	ggccctgant	cctgggatca	nacacccctt	cacgtgtatc	cccacacaaa	300
tgcaagctca	ccaaggtccc	ctctcagtc	cttccctaca	ccctgaacgg	ncactggccc	360
acacccaccc	agancancca	cccgccatgg	ggaatgtnc	caaggaatcg	cngggcaacg	420
tggactctng	tcccnnaagg	gggcagaatc	tccaatagan	gganngaacc	cttgctnana	480
aaaaaaaaana	aaaaa					495

&lt;210&gt; 95

&lt;211&gt; 472

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(472)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 95

ggttacttgg	tttcattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc	60
cctctggaag	ccttgcgcag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
tagctgtttt	gagttgattc	gcaccactgc	accacaactc	aatatgaaaa	ctatttnact	180
tattttattat	cttgtgaaaa	gtatacaatg	aaaattttgt	tcatactgta	tttatcaagt	240
atgatgaaaa	gcaatagata	tatattcttt	tattatgttn	aattatgatt	gccattatta	300
atcggcaaaa	tgtggagtgt	atgttctttt	cacagtaata	tatgcctttt	gtaacttcac	360
ttggttattt	tattgtaaat	gaattacaaa	attcttaatt	taagaaaatg	gtangttata	420
tttanttcan	taatttcttt	ccttgtttac	gttaattttg	aaaagaatgc	at	472

&lt;210&gt; 96

&lt;211&gt; 476

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(476)  
 <223> n = A,T,C or G

<400> 96  
 ctgaagcatt tcttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat 60  
 gtggtgaaat ttcaaaatta tatgtaactt ctactagttt tactttctcc cccaagtctt 120  
 ttttaactca tgatttttac acacacaatc cagaacttat tatatagcct ctaagtcttt 180  
 attcttcaca gtagatgatg aaagagtctt ccagtgtctt gngcanaatg ttctagntat 240  
 agctggatac atacngtggg agttctataa actcatacct cagtgggact naaccaaaat 300  
 tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360  
 gcaggctact ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420  
 taaaaagtct atcttctca nangtctgtn aaggacaat ttaatcttct agcttt 476

<210> 97  
 <211> 479  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(479)  
 <223> n = A,T,C or G

<400> 97  
 actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaattggata 60  
 aaataatgct gcaaaactta tgttcttatg caaaatggaa cgctaataaa acacagctta 120  
 caatcgcaaa tcaaaactca caagtgtcct tctgtttag atttagtgtg ataagactta 180  
 gattgtgctc ctctggatat gattgtttct canatcttgg gcaatnttcc ttagtcaaat 240  
 caggctacta gaattctggt attggatatn tgagagcatg aaatttttaa naatacactt 300  
 gtgattatna aattaatcac aaatttcact tatacctgct atcagcagct agaaaaacat 360  
 ntnnttttta natcaaagta ttttgtgttt ggaantgttn aaatgaaatc tgaatgtggg 420  
 ttcnatctta ttttttccn gacnactant tnccttttta gggctattc tganccatc 479

<210> 98  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<400> 98  
 agtgacttgt cctccaacaa aaccccttga tcaagtttgt ggactgaca atcagacctt 60  
 tgctagtccc tgcactctat tcgctactaa atgcagactg gaggggacca aaaaggggca 120  
 tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180  
 agtgattcag tttcctctac ggatgagaga ctgggtcaag aatatcctca tgcagcttta 240  
 tgaagccact ctgaacacgc tgggttatcta gatgagaaca gagaaataaa gtcagaaaat 300  
 ttacctggag aaaagaggct ttggctgggg accatcccat tgaaccttct cttaggact 360  
 ttaagaaaaa ctaccacatg ttgtgtatcc tgggtgccggc cgtttatgaa ctgaccaccc 420  
 tttggaataa tcttgacgct cctgaacttg ctccctctgcg a 461

<210> 99  
 <211> 171  
 <212> DNA  
 <213> Homo sapien

<400> 99  
 gtggccgcgc gcagggtgtt cctcgtagcg cagggccccc tcccttcccc aggcgtccct 60  
 cggcgccctc gcgggcccga ggaggagcgg ctggcgggtg gggggagtgt gacccacctt 120

cggtgagaaa agccttctct agcgatctga gaggcgtgcc ttgggggtac c 171

<210> 100  
<211> 269  
<212> DNA  
<213> Homo sapien

<400> 100  
cggccgcaag tgcaactcca gctggggcgg tgccgacgaa gattctgcca gcagttggtc 60  
cgactgcgac gacggcgggc gcgacagtcg cagggtgcagc gcgggcgcct ggggtcttgc 120  
aaggctgagc tgacgccgca gaggtcgtgt cacgtccac gaccttgacg ccgtcgggga 180  
cagccggaac agagcccggg gaagcgggag gcctcgggga gccctcggg aaggcgggcc 240  
cgagagatac gcaggtgcag gtggccgcc 269

<210> 101  
<211> 405  
<212> DNA  
<213> Homo sapien

<400> 101  
tttttttttt ttttggaaac tactgcgagc acagcaggtc agcaacaagt ttattttgca 60  
gctagcaagg taacagggtg gggcatgggt acatgttcag gtcaacttcc ttgtcgtgg 120  
ttgattggtt tgtctttatg gggcggggtt ggggtagggg aaacgaagca aataacatgg 180  
agtgggtgca ccctccctgt agaacctggt tacaagctt ggggcagttc acctggtctg 240  
tgaccgtcat tttcttgaca tcaatgttat tagaagtcag gatctcttt agagagtcca 300  
ctgttctgga gggagattag gggttcttgc caaatccaac aaaatccact gaaaaagtgt 360  
gatgatcagt acgaataccg aggcatactt tcatatcggt ggcca 405

<210> 102  
<211> 470  
<212> DNA  
<213> Homo sapien

<400> 102  
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60  
ggcacttaat ccatttttat ttcaaaatgt ctacaaattt aatcccatta tacggtattt 120  
tcaaaatcta aattattcaa attagccaaa tccttaccaa ataataccca aaaatcaaaa 180  
atatacttct ttcagcaaac ttgttacata aattaaaaaa atatatacgg ctggtgtttt 240  
caaagtacaa ttatcttaac actgcaaaaca ttttaaggaa ctaaaataaa aaaaaaact 300  
ccgcaaaagt taaagggaac aacaaattct tttaacaac cattataaaa atcatatctc 360  
aaatcttagg ggaatatata ctacacacgg gatcttaact tttactcact ttgtttattt 420  
ttttaaacca ttgtttgggc ccaacacaat ggaatcccc ctggactagt 470

<210> 103  
<211> 581  
<212> DNA  
<213> Homo sapien

<400> 103  
tttttttttt ttttttttga cccccctctt ataaaaaaca agttaccatt ttatttttact 60  
tacacatatt tattttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac 120  
taaatggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgcctaaagt 180  
gaaaatcttc tctagctctt ttgactgtaa atttttgact ctgtgtaaac atccaaattc 240  
atttttcttg tctttaaaat tatctaattc ttccattttt tccctatttc aagtcaattt 300  
gcttctctag cctcatttcc tagctcttat ctactattag taagtggctt ttttcctaaa 360  
agggaaaaaa ggaagagaaa tggcacacaa aacaaacatt ttatattcat atttctacct 420  
acgttaataa aatagcattt tgtgaagcca gctcaaaaaga aggccttagat ccttttatgt 480  
ccatttttagt cactaaacga tatcaaatgt ccagaatgca aaagggtttgt gaacatttat 540

tcaaaagcta atataagata tttcacatac tcatctttct g

581

<210> 104

<211> 578

<212> DNA

<213> Homo sapien

<400> 104

tttttttttt	tttttttttt	tttttctctt	cttttttttt	gaaatgagga	tcgagttttt	60
cactctctag	atagggcatg	aagaaaactc	atctttccag	ctttaaaata	acaatcaa	120
ctcttatgct	atatcatatt	ttaagttaaa	ctaattgagtc	actggcttat	cttctcctga	180
aggaaactcg	ttcattcttc	tcattcatat	agttatatca	agtactacct	tgcatattga	240
gaggtttttc	ttctctattt	acacatatat	ttccatgtga	atttgatca	aacctttatt	300
ttcatgcaaa	ctagaaaata	atgtttcttt	tgcataagag	aagagaacaa	tatagcatta	360
caaaactgct	caaattgttt	gttaagttat	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaataac	caaaaataat	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
tgaattcaca	tggtattatt	cctagcccaa	cacaatgg			578

<210> 105

<211> 538

<212> DNA

<213> Homo sapien

<400> 105

tttttttttt	tttttcagta	ataatcagaa	caatatttat	ttttatattt	aaaattcata	60
gaaaagtgcc	ttacatttaa	taaaagtgtg	tttctcaaag	tgatcagagg	aattagatat	120
gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
aagatcatag	agcttgtaag	tgaaaagata	aaatttgacc	tcagaaactc	tgagcattaa	240
aaatccacta	ttagcaaata	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
ggggtgtcac	tggtaaacca	acacattctg	aaggatacat	tacttagtga	tagattctta	360
tgtactttgc	taatacgtgg	atatgagttg	acaagtttct	ctttcttcaa	tcttttaagg	420
ggcgagaaat	gaggaaagaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
agatatgttt	cctttgccaa	tattaaaaaa	ataataatgt	ttactactag	tgaaaccc	538

<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

tttttttttt	tttttttagtc	aagtttctat	ttttattata	attaaagtct	tggtcatttc	60
atattattagc	tctgcaactt	acatatattaa	attaaagaaa	cgtttttagac	aactgtacaa	120
tttataaatg	taaggtgcc	ttattgagta	atatattcct	ccaagagtgg	atgtgtccct	180
tctoccacca	actaatgaac	agcaacatta	gtttaatttt	attagtagat	atacactgct	240
gcaaacgcta	attctctttct	ccatcccat	gtgatattgt	gtatatgtgt	gagttggtag	300
aatgcatcac	aatctacaat	caacagcaag	atgaagctag	gctgggcttt	cggtgaaaat	360
agactgtgtc	tgtctgaatc	aatgatctg	acctatcctc	ggtggcaaga	actcttcgaa	420
cgccttctc	aaaggcgctg	ccacatttgt	ggctctttgc	acttgtttca	aaa	473

<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

cgccatggca	ctgcagggca	tctcggtcat	ggagctgtcc	ggcctggccc	cgggcccggtt	60
ctgtgctatg	gtcctggctg	acttcggggc	gcgtgtggta	cgcgaggacc	ggcccggctc	120



```

ccgctacgac gtgagccgct tgggccgggg caagcgctcg ctagtgctgg acctgaagca 180
gccgcgggga gccgccgtgc tgcggcgctct gtgcaagcgg tcggatgtgc tgctggagcc 240
cttccgccgc ggtgtcatgg agaaactcca gctgggcccc gagattctgc agcgggaaaa 300
tccaaggctt atttatgcca ggctgagtggt atttggccag tcaggaagct tctgccggtt 360
agctggccac gatatcaact atttggcttt gtcaggtgtt ctctcaaaaa ttggcagaag 420
tggtgagaat ccgtatgccc cgctgaatct cctggctgac tttgctggtg gtggccttat 480
gtgtgcactg ggcattataa tggtctcttt tgaccgcaca cgcactgaca agggtcaggt 540
cattgatgca aatatggtgg aaggaacagc atatttaagt tcttttctgt ggaaaactca 600
gaaatcgagt ctgtgggaag cacctcgagg acagaacatg ttggatggtg gagcaccttt 660
ctatacgact tacaggacag cagatgggga attcatggct gttggagcaa tagaacccca 720
gttctacgag ctgctgatca aaggacttgg actaaagtct gatgaacttc ccaatcagat 780
gagcatggat gattggccag aaatgaagaa gaagtttgca gatgtatttg caaagaagac 840
gaaggcagag tgggtgtcaaa tctttgacgg cacagatgcc tgtgtgactc cgttcttgac 900
ttttgaggag gttgttcac tcatcacaa caaggaacgg ggctcgttta tcaccagtga 960
ggagcaggac gtgagcccc gccctgcacc tctgctgtta aacaccccag ccatcccttc 1020
tttcaaaagg gatcctttca taggagaaca cactgaggag atacttgaag aatttggatt 1080
cagccgcgaa gagatttatc agcttaactc agataaaatc attgaaagta ataagtaaaa 1140
agctagtctc taacttccag gccacaggct caagtgaatt tgaatactgc atttacagt 1200
tagagtaaca cataacattg tatgcatgga aacatggagg aacagtatta cagtgtccta 1260
ccactcta atcaagaaaaga attacagact ctgattctac agtgatgatt gaattctaaa 1320
aatggttatc attagggctt ttgatttata aaactttggg tacttatact aaattatggt 1380
agttattctg ccttccagtt tgcttgatat atttgttgat attaagattc ttgacttata 1440
ttttgaatgg gttctagtga aaaaggaatg atatatctt gaagacatcg atatacat 1500
atttacactc ttgattctac aatgtagaaa atgaggaaat gccacaaatt gtatggtgat 1560
aaaagtcacg tgaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
a

```

&lt;210&gt; 108

&lt;211&gt; 382

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 108

```

Met Ala Leu Gln Gly Ile Ser Val Met Glu Leu Ser Gly Leu Ala Pro
1          5          10          15
Gly Pro Phe Cys Ala Met Val Leu Ala Asp Phe Gly Ala Arg Val Val
20          25          30
Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
35          40          45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50          55          60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65          70          75          80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85          90          95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100         105         110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115         120         125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130         135         140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
145         150         155         160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
165         170         175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
180         185         190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg

```

195	200	205
Gly Gln Asn Met Leu Asp	Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg	
210	215	220
Thr Ala Asp Gly Glu Phe Met	Ala Val Gly Ala Ile Glu Pro Gln Phe	
225	230	235
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro		240
	245	250
Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala		255
	260	265
Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp		270
	275	280
Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val		285
	290	295
His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu		300
305	310	315
Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala		320
	325	330
Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu		335
	340	345
Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn		350
	355	360
Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu		365
370	375	380

&lt;210&gt; 109

&lt;211&gt; 1524

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 109

ggcacgaggg	tgcgccaggg	cctgagcgga	ggcgggggca	gcctcgccag	cgggggcccc	60
gggcctggcc	atgcctcact	gagccagcgc	ctgcgcctct	acctcgccga	cagctggaac	120
cagtgcgacc	tagtggtctt	cacctgcttc	ctcctgggcg	tgggctgccg	gctgaccocg	180
ggtttgtacc	acctgggccc	cactgtcttc	tgcctcgact	tcattggttt	cacgtgtcgg	240
ctgcttcaca	tcttcacggt	caacaaacag	ctggggccca	agatcgctcat	cgtgagcaag	300
atgatgaagg	acgtgttctt	cttctctctt	ttcctcgggc	tgtggctggt	agcctatggc	360
gtggccacgg	aggggctcct	gaggccacgg	gacagtgact	tcccaagtat	cctgcccggc	420
gtcttctacc	gtccctacct	gcagatcttc	gggcagattc	cccaggagga	catggacgtg	480
gccctcatgg	agcacagcaa	ctgctcgtcg	gagcccggct	tctgggcaca	ccctcctggg	540
gccagggcgg	gcacctgcgt	ctcccagtat	gccaaactgg	tgggtgtgct	gctcctcgtc	600
atcttctctg	tcgtggccaa	catcctgctg	gtcaacttgc	tcattgccat	gttcagttac	660
acattcggca	aagtacaggg	caacagcgat	ctctactgga	aggcgcagcg	ttaccgcctc	720
atccgggaat	tccactctcg	gcccgcgctg	gccccgccct	ttatcgctcat	ctcccacttg	780
cgcctcctgc	tcaggcaatt	gtgcaggcga	ccccggagcc	cccagccgtc	ctccccggcc	840
ctcgagcatt	tccgggttta	cctttctaag	gaagccgagc	ggaagctgct	aacgtgggaa	900
tcggtgcata	aggagaactt	tctgctggca	cgcgctaggg	acaagcggga	gagcgactcc	960
gagcgtctga	agcgcacgtc	ccagaagggtg	gacttggcac	tgaacacagct	gggacacatc	1020
cgcgagtacg	aacagcgcct	gaaagtgtctg	gagcgggagg	tccagcagtg	tagccgcgtc	1080
ctgggggtggg	tggccgaggg	cctgagccgc	tctgccttgc	tgcccccagg	tgggcccggc	1140
ccccctgacc	tgcctgggtc	caaagactga	gccctgctgg	cggacttcaa	ggagaagccc	1200
ccacagggga	ttttgtctct	agagtaaggc	tcatctgggc	ctcggccccc	gcacctgggtg	1260
gccttgtcct	tgaggtgagc	cccattgtcca	tctgggccac	tgtcaggacc	acctttggga	1320
gtgtcatcct	tacaaaccac	agcatgcccg	gctcctccca	gaaccagtcc	cagcctggga	1380
ggatcaaggc	ctggatcccc	ggccgttatc	catctggagg	ctgcagggtc	cttggggtaa	1440
cagggaccac	agaccctca	ccactcacag	attcctcaca	ctgggggaaat	aaagccattt	1500
cagaggaaaa	aaaaaaaaaa	aaaa				1524

&lt;210&gt; 110

<211> 3410  
 <212> DNA  
 <213> Homo sapien

<400> 110

gggaaccagc	ctgcacgcgc	tggctccggg	tgacagccgc	gcgcctcggc	caggatctga	60
gtgatgagac	gtgtccccac	tgaggtgccc	cacagcagca	ggtgttgagc	atgggctgag	120
aagctggacc	ggcaccaaag	ggctggcaga	aatggcgccc	tggctgattc	ctaggcagtt	180
ggcgtgagca	aggaggagag	gccgcagctt	ctggagcaga	gccgagacga	agcagttctg	240
gagtgcctga	acggccccct	gagccctacc	cgcctggccc	actatggtcc	agaggctgtg	300
ggtgagccgc	ctgctgcggc	accggaaagc	ccagctcttg	ctgggtcaacc	tgttaacctt	360
tggcctggag	gtgtgtttgg	ccgcaggcat	cacctatgtg	ccgcctctgc	tgttggaagt	420
gggggtagag	gagaagttca	tgaccatggt	gctgggcatt	ggtccagtgc	tgggcctggt	480
ctgtgtcccg	ctcctaggct	cagccagtga	ccactggcgt	ggacgctatg	gccgcgcgcg	540
gcccttcate	tgggcaactgt	ccttgggcat	cctgctgagc	ctctttctca	tcccaagggc	600
cggctggcta	gcagggtgc	tgtgcccgga	tccaggccc	ctggagctgg	caactgtcat	660
cctgggctgtg	gggtgctgtg	acttctgttg	ccagggtgct	ttcactccac	tggaggccct	720
gctctctgac	ctcttccggg	acccggacca	ctgtcgccag	gcctactctg	tctatgcctt	780
catgatcagt	cttgggggct	gcctgggcta	cctcctgcct	gccattgact	gggacaccag	840
tgccttgccc	ccctacctgg	gcacccagga	ggagtgcctc	tttggcctgc	tcacctcat	900
cttcctcacc	tgcgtagcag	ccacactgct	ggtggctgag	gaggcagcgc	tgggccccac	960
cagaccagca	gaagggtgt	cggccccctc	cttgtcgcgc	caactgctgc	catgccgggc	1020
ccgcttggct	ttccggaaac	tgggcgcctc	gcttcccccg	ctgcaccagc	tgtgctgccg	1080
catgccccgc	accctgcgc	ggctcttcgt	ggctgagctg	tgcagctgga	tggcactcat	1140
gaaccttcacg	ctgttttaca	cggatttcgt	gggcgagggg	ctgtaccagg	gcgtgcccag	1200
agctgagccg	ggcaccgagg	cccgagagaca	ctatgatgaa	ggcgttcgga	tgggcagcct	1260
ggggctgttc	ctgcagtgcg	ccatctccct	ggtcttctct	ctggctcatgg	accggctggt	1320
gcagcgatcc	ggcactcgag	cagtctatct	ggccagtgtg	gcagctttcc	ctgtggctgc	1380
cgggtgccaca	tgcctgtccc	acagtgtggc	cgtggtgaca	gcttcagccg	ccctcaccgg	1440
gttcaccttc	tcagccctgc	agatcctgcc	ctacacactg	gcctccctct	accaccggga	1500
gaagcagggt	ttcctgccc	aataccgagg	ggacactgga	ggtgctagca	gtgaggacag	1560
cctgatgacc	agcttccctg	caggccctaa	gcctggagct	cccttcccta	atggacacgt	1620
gggtgctgga	ggcagtggcc	tgtctccacc	tccaccgcgc	ctctgcgggg	cctctgcctg	1680
tgatgtctcc	gtacgtgtgg	tgggtgggtga	gccaccgag	gccagggtgg	ttccggggccg	1740
gggcatctgc	ctggacctcg	ccatcctgga	tagtgccctc	ctgctgtccc	aggtggcccc	1800
atccctgttt	atgggctcca	ttgtccagct	cagccagtct	gtcactgcct	atatggtgtc	1860
tgcgcagggc	ctgggtcttg	tcgccattta	ctttgtctca	caggtagtat	ttgacaagag	1920
cgactttggc	aaatactcag	cgtagaaaac	ttccagcaca	ttggggtgga	gggcctgcct	1980
caactgggtcc	cagctccccg	ctcctgttag	ccccatgggg	ctgccgggct	ggccgccagt	2040
ttctgttgct	gcacaagtaa	tgtggctctc	ctgtgccacc	ctgtgctgct	gaggtgcgta	2100
gctgcacagc	tgggggctgg	ggcgtccctc	tcctctctcc	ccagtctcta	gggctgcctg	2160
actggaggcc	ttccaagggg	gtttcagctc	ggacttatac	agggaggcca	gaagggtcc	2220
atgcactgga	atgcggggac	tctgcagggt	gattacccag	gctcagggtt	aacagctagc	2280
ctcctagtgt	agacacacct	agagaagggt	ttttgggagc	tgaataaact	cagtcacctg	2340
gtttcccatc	tctaagcccc	ttaacctgca	gcttcgttta	atgtagctct	tgcattgggag	2400
tttctaggat	gaaacactcc	tccatgggat	ttgaacatat	gacttatattg	taggggaaga	2460
gtcctgaggg	gcaacacaca	agaaccaggt	ccctcagcc	cacagcactg	tctttttgct	2520
gateccacccc	cctcttacct	tttatcagga	tgtggcctgt	tggctcctct	gttgccatca	2580
cagagacaca	ggcattttaa	tatttaactt	atttatttta	caaagtagaa	gggaatccat	2640
tgctagcttt	tctgtgttgg	tgtctaatat	ttgggtaggg	tgggggatcc	ccaacaatca	2700
ggtccccctga	gatagctggt	cattgggctg	atcattgcca	gaatcttctt	ctcctggggt	2760
ctggcccccc	aaaatgccta	accagggacc	ttggaaattc	tactcatccc	aaatgataat	2820
tccaaatgct	gttacccaag	gttaggggtg	tgaaggaagg	tagagggtgg	ggcttcaggt	2880
ctcaaccggt	tccctaacca	cccctcttct	cttggcccag	cctggttccc	cccacttcca	2940
ctccccctca	ctctctctag	gactgggctg	atgaaggcac	tgcccaaaat	ttcccctacc	3000
cccaactttc	ccctaccccc	aactttcccc	accagctcca	caacctgtt	tggagctact	3060
gcaggaccag	aagcacaaag	tgcggtttcc	caagcctttg	tccatctcag	ccccagagt	3120
atatctgtgc	ttggggaatc	tcacacagaa	actcaggagc	acccctgcc	tgagctaagg	3180

```

gaggtcttat ctctcagggg gggtttaagt gccgtttgca ataatgtcgt cttatttatt 3240
tagcggggtg aatattttat actgtaagtg agcaatcaga gtataatgtt tatggtgaca 3300
aaattaaagg ctttcttata tgtttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3360
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 3410

```

```

<210> 111
<211> 1289
<212> DNA
<213> Homo sapien

```

```

<400> 111
agccaggcgt ccctctgcct gccactcag tggcaacacc cgggagctgt tttgtccttt 60
gtggagcctc agcagttccc tctttcagaa ctactgccca agagccctga acaggagcca 120
ccatgcagtg cttcagcttc attaaagacca tgatgatcct cttcaatttg ctcatctttc 180
tgtgtgggtg agccctgttg gcagtgggca tctgggtgtc aatcgatggg gcaccccttc 240
tgaagatctt cgggccactg tcgtccagtg ccatgcagtt tgtcaacgtg ggctacttcc 300
tcatcgacg cggcgttggt gtctttgtct ttggtttctt gggctgctat ggtgctaaga 360
ctgagagcaa gtgtgccctc gtgacgttct tcttcatcct cctcctcatc ttcattgctg 420
aggttgacgc tgcgtgtgtc gccttgggtg acaccacaat ggctgagcac ttcctgacgt 480
tgctggtagt gcctgccatc aagaaagatt atggttccca ggaagacttc actcaagtgt 540
ggaacaccac catgaaaggg ctcaagtgtc gtggcttcac caactatacg gattttgagg 600
actcacccta cttcaaagag aacagtgcct ttccccatt ctgttgcaat gacaacgtca 660
ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgacccaaaa gtagagggtt 720
gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
ctggaattgg gggcctcgag ctggctgcca tgattgtgtc catgtatctg tactgcaatc 840
tacaataagt ccacttctgc ctctgccact actgctgcca catgggaact gtgaaggagg 900
accctggcaa gcagcagtga ttgggggagg ggacaggatc taacaatgtc acttgggcca 960
gaatggacct gccctttctg ctccagactt ggggctagat agggaccact ccttttagcg 1020
atgcctgact ttccttccat tgggtgggtg atgggtgggg ggcattccag agcctctaag 1080
gtagccagtt ctgttgccca ttccccagc ctattaaacc ctgatatgc cccctaggcc 1140
tagtgggtgat ccagtgctc tactggggga tgagagaaa gcattttata gcctgggcat 1200
aagtgaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260
tgttacaatg ttaaaaaaaa aaaaaaaaaa
1289

```

```

<210> 112
<211> 315
<212> PRT
<213> Homo sapien

```

```

<400> 112
Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
1 5 10 15
Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
20 25 30
Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
35 40 45
Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
50 55 60
Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
65 70 75 80
Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser
85 90 95
Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
100 105 110
Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Val Ile Phe
115 120 125
Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe
130 135 140

```

Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu Tyr Trp Lys  
 145 150 155 160  
 Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg Pro Ala Leu  
 165 170 175  
 Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu Arg Gln  
 180 185 190  
 Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro Ala Leu Glu  
 195 200 205  
 His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys Leu Leu Thr  
 210 215 220  
 Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg Ala Arg Asp  
 225 230 235 240  
 Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser Gln Lys Val  
 245 250 255  
 Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr Glu Gln Arg  
 260 265 270  
 Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg Val Leu Gly  
 275 280 285  
 Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro Pro Gly Gly  
 290 295 300  
 Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp  
 305 310 315

&lt;210&gt; 113

&lt;211&gt; 553

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 113

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
 1 5 10 15  
 Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu  
 20 25 30  
 Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val  
 35 40 45  
 Glu Glu Lys Phe Met Thr Met Val Leu Gly Ile Gly Pro Val Leu Gly  
 50 55 60  
 Leu Val Cys Val Pro Leu Gly Ser Ala Ser Asp His Trp Arg Gly  
 65 70 75 80  
 Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp Ala Leu Ser Leu Gly Ile  
 85 90 95  
 Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala Gly Trp Leu Ala Gly Leu  
 100 105 110  
 Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu Ala Leu Leu Ile Leu Gly  
 115 120 125  
 Val Gly Leu Leu Asp Phe Cys Gly Gln Val Cys Phe Thr Pro Leu Glu  
 130 135 140  
 Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg Gln Ala  
 145 150 155 160  
 Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu Gly Gly Cys Leu Gly Tyr  
 165 170 175  
 Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu  
 180 185 190  
 Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu  
 195 200 205  
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly  
 210 215 220  
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His

225                      230                      235                      240  
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu  
                                  245                      250                      255  
 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg  
                                  260                      265                      270  
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe  
                                  275                      280                      285  
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val  
                                  290                      295                      300  
 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly  
 305                                   310                                   315                                   320  
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu  
                                  325                                   330                                   335  
 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg  
                                  340                                   345                                   350  
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala  
                                  355                                   360                                   365  
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu  
                                  370                                   375                                   380  
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala  
 385                                   390                                   395                                   400  
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly  
                                  405                                   410                                   415  
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu  
                                  420                                   425                                   430  
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala  
                                  435                                   440                                   445  
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser  
                                  450                                   455                                   460  
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala  
 465                                   470                                   475                                   480  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
                                  485                                   490                                   495  
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser  
                                  500                                   505                                   510  
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala  
                                  515                                   520                                   525  
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp  
                                  530                                   535                                   540  
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
 545                                   550

&lt;210&gt; 114

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 114

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu  
 1                                   5                                   10                                   15  
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val  
                                  20                                   25                                   30  
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser  
                                  35                                   40                                   45  
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly  
                                  50                                   55                                   60  
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr  
 65                                   70                                   75                                   80

Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile  
                             85                            90                            95  
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr  
                             100                            105                            110  
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys  
                             115                            120                            125  
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met  
                             130                            135                            140  
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp  
                             145                            150                            155                            160  
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn  
                             165                            170                            175  
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala  
                             180                            185                            190  
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile  
                             195                            200                            205  
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly  
                             210                            215                            220  
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu  
                             225                            230                            235                            240  
 Gln

<210> 115  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<400> 115  
 gctctttctc tccctcctc tgaatttaaat tctttcaact tgcaatttgc aaggattaca 60  
 catttcactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtctttgt ttaaaattac 120  
 ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccactctctga 180  
 actggttagaa aaacatctga agagctagtc tatcagcatc tgacaggtga attggatggt 240  
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt 300  
 tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt 360  
 ttagtc 366

<210> 116  
 <211> 282  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(282)  
 <223> n = A,T,C or G

<400> 116  
 acaaagatga accatttcct atattatagc aaaattaaaa tctaccgta ttctaattatt 60  
 gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa 120  
 agactttact attttcatat tttaagacac atgatttatc ctattttagt aacctgggtc 180  
 atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt 240  
 tcaatctnga actatctana tcacagacat ttctattcct tt 282

<210> 117  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(305)  
 <223> n = A,T,C or G

<400> 117  
 acacatgtcg cttcaactgcc ttcttagatg cttctgggtca acatanagga acagggacca 60  
 tattttatcct ccctcctgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa 120  
 aataaggcaa aatatatgaa acaacagggtc tcgagatatt ggaaatcagt caatgaagga 180  
 tactgatccc tgatcaactgt cctaatagcag gatgtgggaa acagatgagg tcacctctgt 240  
 gactgcccc gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat 300  
 tgggt 305

<210> 118  
 <211> 71  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(71)  
 <223> n = A,T,C or G

<400> 118  
 accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa 60  
 aantcctggg t 71

<210> 119  
 <211> 212  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(212)  
 <223> n = A,T,C or G

<400> 119  
 actccggttg gtgtcagcag cacgtggcat tgaacatngc aatgtggagc ccaaaccaca 60  
 gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac 120  
 agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctcactaanc ggaattaant 180  
 aatggantca aganactccc aggcctcagc gt 212

<210> 120  
 <211> 90  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(90)  
 <223> n = A,T,C or G

<400> 120  
 actcgttgca natcaggggc cccccagagt caccgttgca ggagtccttc tggctttgcc 60  
 ctccgccggc gcagaacatg ctgggggtgt 90



<210> 121  
 <211> 218  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(218)  
 <223> n = A,T,C or G

<400> 121  
 tgtancgtga anacgacaga naggggtgtc aaaaatggag aanccttgaa gtcattttga 60  
 gaataagatt tgctaaaaga tttggggcta aaacatgggt attgggagac atttctgaag 120  
 atatncangt aaattangga atgaattcat gggtcttttg ggaattcctt tacgatngcc 180  
 agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122  
 <211> 171  
 <212> DNA  
 <213> Homo sapien

<400> 122  
 taggggtgta tgcaactgta aggacaaaaa ttgagactca actggcttaa ccaataaagg 60  
 catttgtag tcatggaac aggaagtcgg atgggtggggc atcttcagtg ctgcatgagt 120  
 caccaccccg gcggggcat ctgtgccaca ggtccctgtt gacagtgcgg t 171

<210> 123  
 <211> 76  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(76)  
 <223> n = A,T,C or G

<400> 123  
 tgtagcgtga agacnacaga atggtgtgtg ctgtgctatc caggaacaca tttattatca 60  
 ttatcaanta ttgtgt 76

<210> 124  
 <211> 131  
 <212> DNA  
 <213> Homo sapien

<400> 124  
 acctttcccc aaggccaatg tctgtgtgc taactggcgg gctgcaggac agctgcaatt 60  
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120  
 ttaagatttg t 131

<210> 125  
 <211> 432  
 <212> DNA  
 <213> Homo sapien

<400> 125  
 actttatcta ctggctatga aatagatggg ggaaaattgc gttaccaact ataccactgg 60  
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact ttgtctcaga tgetgaagaa 120

```

ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat      180
ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg      240
ctcttgaagt atcagtcact ttgagaatg tttcttagtt actgcatact tcatggatcc      300
catggtgggg gtcttgcacg tgtaagaatg gaattgattt tgcttttgca agaattctcag      360
caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgcctctc      420
ctctttgctt gt                                     432

```

```

<210> 126
<211> 112
<212> DNA
<213> Homo sapien

```

```

<400> 126
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat      60
agtaagaatg atatttcccc ccagggatca ccaaattatt ataaaaattt gt          112

```

```

<210> 127
<211> 54
<212> DNA
<213> Homo sapien

```

```

<400> 127
accacgaaac cacaacaag atggaagcat caatccactt gccaagcaca gcag          54

```

```

<210> 128
<211> 323
<212> DNA
<213> Homo sapien

```

```

<400> 128
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctccctt ctaccagctc      60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca      120
ttctctctga agtctaggtt acccattttg gggaccctatt ataggcaata aacacagttc      180
ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt      240
ttcttgcaaa aggtctactc agtcccttgc ttgctcagtg gactgggctc cccagggcct      300
aggctgcctt cttttccatg tcc                                     323

```

```

<210> 129
<211> 192
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(192)
<223> n = A,T,C or G

```

```

<400> 129
acatacatgt gtgtatatTT ttaaatatca cttttgtatc actctgactt tttagcatat      60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc      120
tagcacattc atctgtgata naaagatagg tgagtttcat ttcccttcacg ttggccaatg      180
gataaacaaa gt                                     192

```

```

<210> 130
<211> 362
<212> DNA
<213> Homo sapien

```

<220>  
 <221> misc\_feature  
 <222> (1)...(362)  
 <223> n = A,T,C or G

<400> 130  
 ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca 60  
 tataatgacg caacaaaaag gtgctgttta gtccatgggt tcagtttatg cccctgacaa 120  
 gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa 180  
 ttctgtattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata 240  
 cttatttaaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat 300  
 tgcagcagga agcacgtgtg ggttggttgt aaagctcttt gctaatttta aaaagtaatg 360  
 gg 362

<210> 131  
 <211> 332  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A,T,C or G

<400> 131  
 ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca 60  
 gtangactgg tatgggttgc gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120  
 gttctcccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180  
 ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttgggtttatt atccaactaa 240  
 cttccatctg ttatcactgg agaaagccca gactcccan gacnggtacg gattgtgggc 300  
 atanaaggat tgggtgaagc tggegttgtg gt 332

<210> 132  
 <211> 322  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(322)  
 <223> n = A,T,C or G

<400> 132  
 acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60  
 agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120  
 ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggaccttg tatctcgggt 180  
 ttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg 240  
 ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct 300  
 gtaacaatct acaattggtc ca 322

<210> 133  
 <211> 278  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(278)

<223> n = A,T,C or G

<400> 133

acaagccttc	acaagtttaa	ctaaattggg	attaatcttt	ctgtanttat	ctgcataatt	60
cttggttttc	tttccatctg	gctcctgggt	tgacaatttg	tggaacaac	tctattgcta	120
ctatttaaaa	aaaatcacia	atctttccct	ttaagctatg	ttnaattcaa	actattcctg	180
ctattcctgt	tttgtcaaag	aaattatatt	tttcaaaaata	tgtnattttg	tttgatgggt	240
cccacgaaac	actaataaaa	accacagaga	ccagcctg			278

<210> 134

<211> 121

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(121)

<223> n = A,T,C or G

<400> 134

gtttanaaaa	cttgtttagc	tccatagagg	aaagaatggt	aaactttgta	ttttaaaaca	60
tgattctctg	agggttaaact	tggttttcaa	atggtatttt	tacttgatt	ttgcttttgg	120
t						121

<210> 135

<211> 350

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(350)

<223> n = A,T,C or G

<400> 135

acttanaaacc	atgcctagca	catcagaatc	cctcaaagaa	catcagtata	atcctataacc	60
atancaagt	gtgactggtt	aagcgtgcga	caaaggctcag	ctggcacatt	acttggtgtgc	120
aaacttgata	cttttgttct	aagtaggaac	tagtatacag	tncctaggan	tggtactcca	180
gggtgcccc	caactcctgc	agccgctcct	ctgtgccagn	ccctgnaagg	aaactttcgct	240
ccacctcaat	caagccctgg	gccatgctac	ctgcaattgg	ctgaacaaac	gtttgctgag	300
ttccaagga	tgcaaagcct	ggtgctcaac	tcctggggcg	tcaactcagt		350

<210> 136

<211> 399

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(399)

<223> n = A,T,C or G

<400> 136

tgtaccgtga	agacgacaga	agttgcatgg	cagggacagg	gcagggccga	ggccagggtt	60
gctgtgattg	tatccgaata	ntcctcgtga	gaaaagataa	tgagatgacg	tgagcagcct	120
gcagacttgt	gtctgccttc	aanaagccag	acaggaaggc	cctgcctgcc	ttggtcttga	180
cctggcggcc	agccagccag	ccacaggtgg	gcttcttcct	tttgtggtga	caacnccaag	240
aaaactgcag	aggcccagg	tcaggtgtna	gtgggtangt	gaccataaaa	caccagggtc	300

tcccaggaac ccgggcaaag gccatcccc cctacagcca gcatgcccac tggcgtgatg 360  
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137  
 <211> 165  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(165)  
 <223> n = A,T,C or G

<400> 137  
 actggtgtgg tngggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60  
 ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120  
 ttggctgggc ccactggtgg tcactgtcat tggggtgggt cctgt 165

<210> 138  
 <211> 338  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(338)  
 <223> n = A,T,C or G

<400> 138  
 actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60  
 ttaacttctc cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccac 120  
 tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg 180  
 tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt 240  
 cangcctcag gaagcctcaa gttccattca gctttgccac tgtacattcc ccatntttaa 300  
 aaaaactgat gccttttttt tttttttttg taaaattc 338

<210> 139  
 <211> 382  
 <212> DNA  
 <213> Homo sapien

<400> 139  
 gggaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60  
 gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccga gtgaaggaga 120  
 attcaaacag acctcgatc tcttggtgtg agcctggtcg gtcacccgc tatcatctgc 180  
 atttgctta ctcaggtgct accggactct ggccctgat gtctgtagt tcacaggatg 240  
 ccttatttgt cttctacacc ccacagggcc cctacttct tcggatgtgt ttttaataat 300  
 gtcagctatg tgccccatcc tccttcattgc cctccctccc tttcctacca ctgctgagt 360  
 gcctggaact tgtttaaagt gt 382

<210> 140  
 <211> 200  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(200)

<223> n = A,T,C or G

<400> 140

accaaancctt	ctttctgttg	tgtnngattt	tactataggg	gttnngcttn	ttctaaanat	60
acttttcatt	taacancttt	tgtaagtgt	caggctgcac	tttgcctcat	anaattattg	120
ttttcacatt	tcaacttgta	tggtttgtc	tcttanagca	ttggtgaaat	cacatatatt	180
atattcagca	taaaggagaa					200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141

actttatttt	caaaacactc	atatgttgca	aaaaacacat	agaaaaataa	agtttggtgg	60
gggtgctgac	taaacttcaa	gtcacagact	tttatgtgac	agattggagc	agggtttggt	120
atgcatgtag	agaacccaaa	ctaattttatt	aaacaggata	gaaacaggct	gtctgggtga	180
aatggttctg	agaaccatcc	aattcacctg	tcagatgctg	atanactagc	tcttcagatg	240
tttttctacc	agttcagaga	tnggttaatg	actanttcca	atggggaaaa	agcaagatgg	300
attcacaac	caagtaattt	taaacaaaga	cactt			335

<210> 142

<211> 459

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(459)

<223> n = A,T,C or G

<400> 142

accaggttaa	tattgccaca	tatatccttt	ccaattgcgg	gctaaacaga	cgtgtattta	60
gggttggtta	aagacaaccc	agcttaatat	caagagaaat	tgtgaccttt	catggagtat	120
ctgattggaga	aaacactgag	ttttgacaaa	tcttatttta	ttcagatagc	agtctgatca	180
cacatgggtcc	aaacacactc	aaataataaa	tcaaataatna	tcagatgtta	aagattggtc	240
ttcaaacatc	atagccaatg	atgccccgct	tgcctataat	ctctccgaca	taaaaccaca	300
tcaacacctc	agtggccacc	aaaccattca	gcacagcttc	cttaactgtg	agctgtttga	360
agctaccagt	ctgagcacta	ttgactatnt	ttttcangct	ctgaatagct	ctagggatct	420
cagcangggg	gggaggaacc	agctcaacct	tggcgtant			459

<210> 143

<211> 140

<212> DNA

<213> Homo sapien

<400> 143

acatttcctt	ccaccaagtc	aggactcctg	gcttctgtgg	gagttcttat	cacctgaggg	60
aaatccaaac	agtctctcct	agaaaggaat	agtgtcacca	acccacacca	tctccctgag	120
accatccgac	ttccctgtgt					140

<210> 144

<211> 164

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(164)  
<223> n = A,T,C or G

<400> 144  
acttcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttot 60  
atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120  
aggcaattaa tocatatttg ttttcaataa ggaaaaaaag atgt 164

<210> 145  
<211> 303  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(303)  
<223> n = A,T,C or G

<400> 145  
acgtagacca tocaactttg tatttgtaat ggcaaacatc cagnagcaat tcctaaacaa 60  
actggagggt atttataccc aattatccca ttcattaaca tgccctcttc ctcaggctat 120  
gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca 180  
gtaggggagt ccatccaagt gacagggtcta atcaaaggag gaaatggaac ataagcccag 240  
tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300  
caa 303

<210> 146  
<211> 327  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(327)  
<223> n = A,T,C or G

<400> 146  
actgcagctc aattagaagt ggtctctgac tttcatcanc ttctccctgg gctccatgac 60  
actggcctgg agtgactcat tgetctggtt ggttgagaga gtccttttgc caacaggcct 120  
ccaagtcagg gctgggattt gtttccttcc cacattctag caacaatatg ctggccactt 180  
cctgaacagg gaggggtgga ggagccagca tggaacaagc tgccactttc taaagtagcc 240  
agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300  
taggggtgag ctgtgtgact ctatggt 327

<210> 147  
<211> 173  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(173)  
<223> n = A,T,C or G

&lt;400&gt; 147

acattgtttt	tttgagataa	agcattgana	gagctctcct	taacgtgaca	caatggaagg	60
actggaacac	ataccacat	ctttgttctg	agggataatt	ttctgataaa	gtcttgctgt	120
atattcaagc	acatatgtta	tatattattc	agttccatgt	ttatagccta	ggt	173

&lt;210&gt; 148

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(477)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 148

acaaccactt	tatctcatcg	aattttttaac	ccaaactcac	tcactgtgcc	tttctatcct	60
atgggatata	ttatttgatg	ctccatttca	tcacacatat	atgaataata	cactcatact	120
gccctactac	ctgctgcaat	aatcacattc	ccttcctgtc	ctgaccctga	agccattggg	180
gtggtcctag	tggccatcag	tccangcctg	caccttgagc	ccttgagctc	cattgctcac	240
nccancccac	ctcaccgacc	ccatcctctt	acacagctac	ctccttgctc	tctaacccca	300
tagattatnt	ccaaattcag	tcaattaagt	tactattaac	actctacccg	acatgtccag	360
caccactggg	aagccttctc	cagccaacac	acacacacac	acacncacac	acacacatat	420
ccaggcacag	gctacctcat	cttcacaatc	acccttttaa	ttaccatgct	atgggtgg	477

&lt;210&gt; 149

&lt;211&gt; 207

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 149

acagttgtat	tataatatca	agaaataaac	ttgcaatgag	agcattttaag	agggaagaac	60
taacgtatth	tagagagcca	aggaaggtht	ctgtggggag	tgggatgtaa	ggtggggcct	120
gatgataaat	aagagtcagc	caggtaagtg	ggtgggtgtg	tatgggcaca	gtgaagaaca	180
tttcaggcag	agggaacagc	agtgaata				207

&lt;210&gt; 150

&lt;211&gt; 111

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(111)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 150

acettgatth	cattgctgct	ctgatggaaa	cccaactatc	taatttagct	aaaacatggg	60
cacttaaatg	tggtcagtgt	ttggacttgt	taactantgg	catctttggg	t	111

&lt;210&gt; 151

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 151

agcgcggcag	gtcatattga	acattccaga	tacctatcat	tactcgatgc	tgthgataac	60
------------	------------	------------	------------	------------	------------	----



```

agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat    120
ggataccaac cggaaaaccc ctatcccgcg cagcccactg tggccccac  tgtctacgag    180
gtgcatccgg ctcaagt                                     196

```

```

<210> 152
<211> 132
<212> DNA
<213> Homo sapien

```

```

<400> 152
acagcacttt cacatgtaag aaggagaaa ttcctaatg taggagaaag ataacagaac    60
cttccccttt tcatctagt gtggaaacct gatgctttat gttgacagga atagaaccag    120
gaggagttt gt                                     132

```

```

<210> 153
<211> 285
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(285)
<223> n = A,T,C or G

```

```

<400> 153
acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag    60
cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctacgcagga    120
gcacatcaat aaagtccaaa gtcttggaact tggccttggc ttggaggaag tcatcaacac    180
cctggctagt gagggtgcgg cgccgctcct ggatgacggc atctgtgaag tcgtgcacca    240
gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt                285

```

```

<210> 154
<211> 333
<212> DNA
<213> Homo sapien

```

```

<400> 154
accacagtcc tgttgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc    60
accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac    120
octaagccgg ttacacagct aactcccact ggccttgatt tgtgaaattg ctgctgcctg    180
attggcacag gagtccaagg tgttcagctc ccctcctcgg tggaaacgaga ctctgatttg    240
agtttcacaa attctcgggc cacctcgtca ttgctcctct gaaataaaat ccggagaatg    300
gtcaggcctg tctcatccat atggatcttc cgg                                     333

```

```

<210> 155
<211> 308
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G

```

```

<400> 155
actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg    60
gaaagtgttt tgggaactgt aaagtgccta acacatgatc gatgattttt gttataatat    120
ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc    180

```

atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggt	240
gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtga aggcattgctg	300
gccctggt	308

<210> 156  
 <211> 295  
 <212> DNA  
 <213> Homo sapien

<400> 156	
accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta	60
ttattgatta ctgagagaac tgtagacat ttagttgaag atttctaca caggaactga	120
gaataggaga ttatgtttgg ccctcatatt ctctcctatc ctcttgccct cattctatgt	180
ctaatatatt ctcaatcaaa taaggtagc ataatcagga aatcgaccaa ataccaatat	240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat	295

<210> 157  
 <211> 126  
 <212> DNA  
 <213> Homo sapien

<400> 157	
acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct	60
gaagagcaaa acaattctg tcatgtaac tctatcttgg gtcgtgggta tatctgtccc	120
cttagt	126

<210> 158  
 <211> 442  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(442)  
 <223> n = A,T,C or G

<400> 158	
accactggt cttggaaca cccatcctta atacgatgat tttctgtcg tgtgaaaatg	60
aanccagcag gctgcccta gtcagtcctt ccttcagag aaaaagagat ttgagaaagt	120
gcctgggtaa ttcaccatta atttctccc ccaaactctc tgagtcttcc cttaatat	180
ctgggtgttc tgaccaaagc aggtcatggt ttgttgagca ttgggatcc cagtgaagta	240
natgtttgta gccttgata cttagccctt cccacgcaca aacggagtgg cagagtggg	300
ccaaccctgt tttccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga	360
nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg	420
tgttcattct ctgatgcct gt	442

<210> 159  
 <211> 498  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(498)  
 <223> n = A,T,C or G

<400> 159	
acttcaggt aacgttgtt tttccgttg gctgaactg atgggtgacg ttgtaggttc	60

```

tccaacaaga actgagggtg cagagcgggt agggaagagt gctgttccag ttgcacctgg      120
gctgctgtgg actgttggtg attcctcact acggcccaag gttgtggaac tggcanaaaag      180
gtgtgttggt gganttgagc tcgggcggct gtggtagggt gtgggctctt caacaggggc      240
tgctgtggtg ccgggangtg aangtggtgt gtcacttgag cttggccagc tctggaaaagt      300
antanattct tctgaaggc cagcgttgt ggagctggca ngggtcantg ttgtgtgtaa      360
cgaaccagtg ctgctgtggg tgggtgtana tcctccaaa agcctgaagt tatggtgtcn      420
tcaggtaana atgtggtttc agtgtccctg ggcnctgtg gaaggttgta nattgtcacc      480
aagggaataa gctgtggt                                     498

```

&lt;210&gt; 160

&lt;211&gt; 380

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(380)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 160

```

acctgcatcc agcttccctg ccaaactcac aaggagacat caacctctag acagggaaac      60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct      120
ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc      180
cactagacat ctcatcagcc acttgtgtga agagatgcc catgaccca gatgcctctc      240
ccacccttac ctccatctca cacacttgag ctttccaactc tgtataattc taacatcctg      300
gagaaaaaatg gcagtttgac cgaacctgtt cacaacggta gaggctgatt tctaacgaaa      360
cttgtagaat gaagcctgga                                     380

```

&lt;210&gt; 161

&lt;211&gt; 114

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 161

```

actccacatc ccctctgagc aggcgggtgt cgttcaaggt gtatttggcc ttgcctgtca      60
cactgtccac tggccctta tccacttggt gcttaatccc tcgaaagagc atgt      114

```

&lt;210&gt; 162

&lt;211&gt; 177

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 162

```

actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa      60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt      120
tggtgatata taacttgga ataaccagc ctggtgatac ataaaactac tcaactgt      177

```

&lt;210&gt; 163

&lt;211&gt; 137

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(137)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 163

catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atccccgtgac	60
canagaaggc agctacggct actectacat cctggcgtgg gtggccttcg cctgcacctt	120
catcagcggc atgatgt	137

&lt;210&gt; 164

&lt;211&gt; 469

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(469)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 164

cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta	60
tgcaatgcat catgctatct catacctaat gagggagttc caggagattc aaccaggaaa	120
tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt	180
gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg	240
ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg	300
gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct	360
tctagtaggc acagggctcc caggccaggc ctcattctcc tctggcctct aatagtcatt	420
gattgtgtag ccatgcctat cagtaaaaaa atnnttgagc aaacacttt	469

&lt;210&gt; 165

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(195)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 165

acagtttttt atanatatcg acattgccgg cacttgtgtt cagtttcata aagctgggtg	60
atccgctgtc atccactatt ccttggttag agtaaaaatt attcttatag cccatgtccc	120
tgcaggccgc ccgcccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact	180
tcctctgaga tgagt	195

&lt;210&gt; 166

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(383)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 166

acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc	60
cgaggctcga gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgcccacct	120
ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt	180
tttgacagacc agcctgagca aggggcggat gttcagcttc agtcctctct tcgtcagggtg	240
gatgccaaac tcgtctangg tccgtgggaa gctggtgtcc acntcaccta caacctgggc	300
gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt	360
nggggccttt ttggtgaact ttc	383

<210> 167  
 <211> 247  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(247)  
 <223> n = A,T,C or G

<400> 167  
 acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat 60  
 tggagcagaa actggagcaa gaagtgggcc tggggctgaa gtagagacca aggccactgc 120  
 tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac 180  
 tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac 240  
 tgangtc 247

<210> 168  
 <211> 273  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(273)  
 <223> n = A,T,C or G

<400> 168  
 acttctaagt tttctagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa 60  
 aatccctcan ccttgttctt cacnactgtc tatactgana gtgtcatgtt tccacaaagg 120  
 gctgacacct gagcctgnat tttcactcat ccctgagaag ccctttccag taggggtggc 180  
 aattcccaac ttcottgcca caagcttccc aggctttctc ccctggaaaa ctccagcttg 240  
 agtcccagat acactcatgg gctgccctgg gca 273

<210> 169  
 <211> 431  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(431)  
 <223> n = A,T,C or G

<400> 169  
 acagccttgg cttccccaaa ctccacagtc tcagtgcaga aagatcatct tccagcagtc 60  
 agctcagacc aggggtcaaag gatgtgacat caacagtttc tggtttcaga acagggttcta 120  
 ctactgtcaa atgaccccc atacttctc aaaggctgtg gtaagttttg cacagggtgag 180  
 ggcagcagaa aggggggtant tactgatgga caccatcttc tctgtatact ccactactgac 240  
 cttgccatgg gcaaaggccc ctaccacaaa aacaatagga tcaactgctg gcaccagctc 300  
 acgcacatca ctgacaaccg ggatggaaaa agaantgcc aactttcatac atccaactgg 360  
 aaagtgatct gatactggat tcttaattac cttcaaaaagc ttctgggggc catcagctgc 420  
 tcgaacactg a 431

<210> 170  
 <211> 266  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(266)

<223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgcctgtgcc	ggctgtgaa	agggagtcca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtcc	tgggagggg	agttggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(1248)

<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcaact	cgcagccctg	gcaggcggca	60
ctggctcatgg	aaaacgaatt	gttctgtctg	ggcgtcctgg	tgcacccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaaccgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	acccagcat	gttctgcgcc	ggcgaggagg	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agtggcggtg	ccaggtgtct	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720
attgaccccc	aaatacatcc	tgcggaagga	attcaggaat	atctgttccc	agcccctcct	780
ccctcaggcc	caggagtcca	ggccccccagc	ccctcctccc	tcaaaccaag	ggtacagatc	840
cccagcccct	ccctccctcag	acccaggagt	ccagaccccc	cagcccctcc	tcctcagac	900
ccaggagtcc	agcccctcct	ccctcagacc	caggagtcca	gacccccag	cccctcctcc	960
ctcagaccca	gggggtccagg	cccccaaccc	ctcctccctc	agactcagag	gtccaagccc	1020
ccaaccntc	attccccaga	cccagaggtc	cagggtccag	cccctcntcc	ctcagaccca	1080
gcgggtccaat	gccacctaga	ctntccctgt	acacagtgcc	cccttggtggc	acgttgaccc	1140
aaccttacca	gttggttttt	catttttngt	ccctttcccc	tagatccaga	aataaagttt	1200
aagagaagng	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1248

<210> 172

<211> 159

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(159)

<223> Xaa = Any Amino Acid

<400> 172

```

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1           5           10           15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
           20           25           30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
           35           40           45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
           50           55           60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
65           70           75           80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
           85           90           95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
           100          105          110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
           115          120          125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
130          135          140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
145          150          155

```

&lt;210&gt; 173

&lt;211&gt; 1265

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1265)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 173

```

ggcagcccgcc actgcgagcc ctggcaggcg gcactgggtca tggaaaacga attgttctgc      60
tcggggcgctcc tgggtgcatcc gcagtggggtg ctgtcagccg cactactgttt ccagaactcc      120
tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg      180
gtggaggcca gcctctccgt acggcaccca gactacaaca gaccttgct cgctaacgac      240
ctcatgctca tcaagttgga cgaatccgtg tcagagtctg acaccatccg gagcatcagc      300
attgcttcgc agtgccctac cggggggaac tcttgccctg tttctggctg ggtctgctg      360
gcgaacggtg agctcacggg tgtgtgtctg ccctcttcaa ggaggtcctc tgcccagtcg      420
cgggggctga cccagagctc tgcgtccag gcagaatgcc taccgtgctg cagtgcgtga      480
acgtgtcggg ggtgtctgag gaggtctgca gtaagctcta tgaccgctg taccaccca      540
gcatgttctg cgccggcgga gggcaagacc agaaggactc ctgcaacggt gactctgggg      600
ggcccctgat ctgcaacggg tacttgagg gccttgtgtc tttcggaaaa gcccctgtg      660
gccaaagttg cgtgccagg gtctacacca acctctgcaa attcactgag tggatagaga      720
aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac      780
atcctgcgga aggaattcag gaatatctgt tcccagcccc tcctccctca ggcccaggag      840
tccaggcccc cagcccctcc tccctcaaac caagggtaca gatccccagc ccctcctccc      900
tcagacccag gagtccagac ccccagccc ctccctcctc agaccaggga gtccagcccc      960
tcctcctnca gaccaggag tccagacccc ccagcccctc ctccctcaga ccagggggt      1020
gaggccccc acccctcctc cttcagagtc agagggtcaa gcccacaacc cctcggtccc      1080
cagacccaga ggttnaggtc ccagcccctc ttcctcaga cccagnggtc caatgccacc      1140
tagattttcc ctgnacacag tgccccttg tggngangtt acccaacctt accagttggt      1200
ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga ngngcaaaaa      1260
aaaaa

```

&lt;210&gt; 174

&lt;211&gt; 1459

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (1459)

<223> n = A,T,C or G

<400> 174

ggtcagccgc	acactgtttc	cagaagtgg	tgcagagctc	ctacaccatc	gggctggggc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcacc	agagtacaac	agacccttgc	tcgctaacga	cctcatgctc	atcaagttag	180
acgaatccgt	gtccgagtct	gacaccatcc	ggagcatcag	cattgcttgc	cagtgcctta	240
ccgcggggaa	ctcttgcctc	gtttctggct	ggggtctgct	ggcgaacggt	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggtcct	ctgccagctc	gcgggggctg	accagagctc	360
ctgcgtccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tggtgtctga	420
ngaggtctgc	antaagctct	atgacccgct	gtaccacccc	ancatgttct	gcgccggcgg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcattggggc	tgaggcggtg	780
gacctccacc	caatagaaaa	tctctttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtcgattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttgga	attttttgat	atttctaagc	tacacagttc	960
gtctgtgaat	ttttttaaat	tgttgcaact	ctcctaataa	ttttctgatg	tgtttattga	1020
aaaaatccaa	gtataagtgg	acttgtgcat	tcaaaccagg	gttgttcaag	gggtcaactgt	1080
gtacccagag	ggaaacagtg	acacagattc	atagaggtga	aacacgaaga	gaaacaggaa	1140
aaatcaagac	tctacaaaga	ggctgggcag	ggtggctcat	gcctgtaatc	ccagcacttt	1200
gggaggcgag	gcaggcgagat	cacttgaggt	aaggagtcca	agaccagcct	ggccaaaatg	1260
gtgaaatcct	gtctgtacta	aaaatacaaa	agttagctgg	atatggtggc	aggcgctctg	1320
aatcccagct	acttggggag	ctgaggcagg	agaattgctt	gaatatggga	ggcagaggtt	1380
gaagtgagtt	gagatcacac	cactatactc	cagctggggc	aacagagtaa	gactctgtct	1440
caaaaaaaaa	aaaaaaaaaa					1459

<210> 175

<211> 1167

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1) ... (1167)

<223> n = A,T,C or G

<400> 175

ggcagccct	ggcaggcggc	actggtcatg	gaaaacgaat	tgttctgctc	gggcgtcctg	60
gtgcatccgc	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggg	120
ctgggctgc	acagtcttga	ggccgacga	gagccaggga	gccagatggt	ggaggccagc	180
ctctccgtac	ggcaccaga	gtacaacaga	ctcttgctcg	ctaaccacct	catgctcatc	240
aagttaggag	aatccgtgtc	cgagtctgac	accatccgga	gcacagcat	tgcttcgcag	300
tgccctaccg	cggggaactc	ttgcctcgtn	tctggctggg	gtctgctggc	gaacggcaga	360
atgcctaccg	tgctgcaactg	cgtgaacgtg	tcgggtggtg	ctgaggangt	ctgcagtaag	420
ctctatgacc	cgctgtacca	ccccagcatg	ttctgcgcgc	gcggagggca	agaccagaag	480
gactcctgca	acgggtgactc	tggggggccc	ctgatctgca	acgggtactt	gcagggcctt	540
gtgtctttcg	gaaaagcccc	gtgtggccaa	cttggcgtgc	caggtgtcta	caccaacctc	600
tgcaaatcca	ctgagtggtg	agagaaaacc	gtccagncca	gttaactctg	gggactggga	660
acccatgaaa	ttgaccccca	aatacatcct	gcggaangaa	ttcaggaata	tctgttccca	720
gcccctcctc	cctcaggccc	aggagtccag	gccccagccc	cctcctcctc	caaaccaagg	780



```

gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagaccccc agccctcnt      840
ccntcagacc caggagtcca gcccctctc cntcagacgc aggagtccag acccccagc      900
ccntcntccg tcagaccag ggggtgcagge ccccaacccc tcntccntca gagtcagagg      960
tccaagcccc caacccctcg ttcccagac ccagaggtnc aggtcccage ccctctccc      1020
tcagaccag cgggtccaatg ccacctagan tntccctgta cacagtgcc ccttggtgga      1080
ngttgaccca acctaccag ttggttttc attttttgtc ctttccct agatccagaa      1140
ataaagtnta agagaagcgc aaaaaaa      1167

```

<210> 176  
 <211> 205  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(205)  
 <223> Xaa = Any Amino Acid

<400> 176

Met	Glu	Asn	Glu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp
1			5					10					15	
Val	Leu	Ser	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu
			20				25					30		
Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
		35				40					45			Val
Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Leu	Leu
	50				55					60				Leu
Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
65				70					75					80
Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
			85					90					95	Gly
Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
			100					105					110	Met
Pro	Thr	Val	Leu	His	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Xaa
		115				120						125		Val
Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
		130				135					140			Ala
Gly	Gly	Gly	Gln	Asp	Gln	Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
145					150					155				160
Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
				165					170					175
Ala	Pro	Cys	Gly	Gln	Leu	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
			180					185					190	Cys
Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Xaa	Ser		
		195					200					205		

<210> 177  
 <211> 1119  
 <212> DNA  
 <213> Homo sapien

<400> 177

gcgcactcgc	agccctggca	ggcggcactg	gtcatggaaa	acgaattggt	ctgctcgggc		60
gtcctggtgc	atccgcagtg	ggtgctgtca	gccgcacact	gtttccagaa	ctcctacacc		120
atcgggctgg	gcctgcacag	tcttgaggcc	gaccaagagc	cagggagcca	gatggtggag		180
gccagcctct	ccgtacggca	cccagagtac	aacagaccct	tgctcgctaa	cgacctcatg		240
ctcatcaagt	tggacgaatc	cgtgtccgag	tctgacacca	tccggagcat	cagcattgct		300
tcgcagtgcc	ctaccgcggg	gaactcttgc	ctcgtttctg	gctgggggtct	gctggcgaac		360

```

gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc 420
caaccctggc aggggtgtac catttcggca acttccagtg caaggacgtc ctgctgcatc 480
ctcactgggt gctcactact gctcactgca tcacccggaa cactgtgata aactagccag 540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt 600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc 660
cagttatcct cactgaattg agatttctg cttcagtgtc agccattccc acataatttc 720
tgacctacag aggtgaggga tcatatagct cttcaaggat gctggtagtc ccctcacaaa 780
ttcatttctc ctgtttagt gaaagggtgc ccctctggag cctcccaggg tgggtgtgca 840
ggtcacaatg atgaatgtat gatcgtgttc ccattaccca aagcctttaa atccctcatg 900
ctcagtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cattcatgca 960
accacctcag gactcctgga ttctctgcct agttgagctc ctgcatgctg cctccttggg 1020
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc 1080
ttaataaaca gaagctgtga tgttaaaaaa aaaaaaaaa 1119

```

&lt;210&gt; 178

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(164)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 178

```

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1          5          10          15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
          20          25          30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
          35          40          45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
          50          55          60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
          65          70          75          80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
          85          90          95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val
          100          105          110
Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu
          115          120          125
Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg
          130          135          140
Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser
          145          150          155          160
Pro Gly Thr Leu

```

&lt;210&gt; 179

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 179

```

ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60
ccagctgccc ccggccgggg gatgcgaggc tcggagcacc cttgcccggc tgtgattgct 120
gccaggcact gttcatctca gcttttctgt ccctttgctc ccggcaagcg cttctgtgta 180
aagttcatat ctggagcctg atgtcttaac gaataaaggt cccatgctcc acccgaaaaa 240

```

aaaaaaaaaa

250

<210> 180  
 <211> 202  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 180

actagtccag	tgtggtggaa	ttccattgtg	ttggggccaa	cacaatggct	acctttaaca	60
tcacccagac	cccggccctg	cccgtgcccc	acgtgtgtgc	taacgacagt	atgatgctta	120
ctctgctact	cggaaactat	ttttatgtaa	ttaatgtatg	ctttcttggt	tataaatgcc	180
tgattttaaa	aaaaaaaaaa	aa				202

<210> 181  
 <211> 558  
 <212> DNA  
 <213> Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(558)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 181

tccytttkt	naggtttkg	agacamccck	agacctwaan	ctgtgtcaca	gacttcyngg	60
aatgttttag	cagtgtctagt	aatttcytcg	taatgattct	gttattactt	tcctnattct	120
ttattcctct	ttcttctgaa	gattaatgaa	gttgaaaatt	gaggtggata	aatacaaaaa	180
ggtagtgtga	tagtataagt	atctaagtgc	agatgaaagt	gtgttatata	tatccattca	240
aaattatgca	agtttagtaat	tactcagggt	taactaaatt	actttaatat	gctgttgaac	300
ctactctgtt	ccttggctag	aaaaaattat	aaacaggact	ttgttagttt	gggaaagcaa	360
attgataata	ttctatgttc	taaaagttgg	gctatacata	aattattaaag	aaatatggaw	420
ttttattccc	aggaatatgg	kgttcatttt	atgaatatta	cscrggatag	awgtwtgagt	480
aaaaycagtt	ttggtwaata	ygtwaatatg	tcmtaaataa	acaakgcttt	gacttatttc	540
caaaaaaaaa	aaaaaaaa					558

<210> 182  
 <211> 479  
 <212> DNA  
 <213> Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(479)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 182

acagggttk	grggatgcta	agscclccrga	rwtygtttga	tccaaccctg	gcttwttttc	60
agaggggaaa	atggggccta	gaagttacag	mecatyttagy	tggtgcgmtg	gcacccctgg	120
cstcacacag	astcccgagt	agctgggact	acaggcacac	agtcactgaa	gcaggccctg	180
ttwgcaattc	acgttgccac	ctccaactta	aacattcttc	atatgtgatg	tccttagtca	240
ctaagggttaa	actttccac	ccagaaaagg	caacttagat	aaaatcttag	agtactttca	300
tactmttcta	agtcctcttc	cagcctcact	kkgagtcctm	cytggggggt	gataggaant	360
ntctcttggc	tttctcaata	aartctctat	ycatctcatg	tttaatttgg	tacgcataa	420
awtgstgara	aaattaaaa	gttctggtty	mactttaaaa	aaaaaaaaaa	aaaaaaaaaa	479

<210> 183  
 <211> 384  
 <212> DNA

<213> Homo sapien

<400> 183

aggcgggagc	agaagctaaa	gccaaagccc	agaagagtg	gcagtgccag	cactgggtgcc	60
agtaccagta	ccaataacag	tgccagtgcc	agtgccagca	ccagtgggtg	cttcagtgtc	120
ggtgccagcc	tgaccgccac	tctcacattt	gggtctctcg	ctggccttgg	tggagctggt	180
gccagcacca	gtggcagctc	tggtgcctgt	ggtttctcct	acaagtgaga	ttttagatat	240
tgtaaatcct	gccagtcttt	ctcttcaagc	caggggtgcat	cctcagaaac	ctactcaaca	300
cagcactcta	ggcagccact	atcaatcaat	tgaagttgac	actctgcatt	aratctattt	360
gccatttcaa	aaaaaaaaaa	aaaa				384

<210> 184

<211> 496

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(496)

<223> n = A,T,C or G

<400> 184

accgaattgg	gaccgctggc	ttataagcga	tcatgttynt	ccrgtatcac	ctcaacgagc	60
aggagatcgc	agtctatacg	ctgaagaaat	ttgaccgat	gggacaacag	acctgctcag	120
cccatcctgc	tcggttctcc	ccagatgaca	aatactctsg	acaccgaatc	accatcaaga	180
aacgcttcaa	ggtgctcatg	acccagcaac	cgcgccctgt	cctctgaggg	tccttaaacc	240
tgatgtcttt	tctgccacct	gttacccttc	ggagactccg	taaccaaact	cttcggactg	300
tgagccctga	tgcccttttg	ccagccatac	tctttggcat	ccagtctctc	gtggcgattg	360
attatgcttg	tgtgaggcaa	tcatggtggc	atcacccata	aagggaacac	atttgacttt	420
tttttctcat	attttaaatt	actacmagaw	tattwmagaw	waaatgawtt	gaaaaactst	480
taaaaaaaaa	aaaaaa					496

<210> 185

<211> 384

<212> DNA

<213> Homo sapien

<400> 185

gctggtagcc	tatggcgkgg	cccacggagg	ggctcctgag	gccacggrac	agtgacttcc	60
caagtatcyt	gcgcsgegtc	ttctaccgtc	cctacctgca	gatcttcggg	cagattcccc	120
aggaggacat	ggacgtggcc	ctcatggagc	acagcaactg	ytcgctggag	cccggcttct	180
gggcacaccc	tectggggcc	caggcgggca	cctgcgtctc	ccagtatgcc	aactggctgg	240
tggtgctgct	cctcgctcatc	ttcctgctcg	tggccaacat	cctgctgggc	aacttgctca	300
ttgccatgtt	cagttacaca	ttcggcaaag	tacagggcaa	cagcgatctc	tactgggaag	360
gcgcagcggt	accgcctcat	ccgg				384

<210> 186

<211> 577

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(577)

<223> n = A,T,C or G

<400> 186

gagttagctc	ctccacaacc	ttgatgaggt	cgtctgcagt	ggcctctcgc	ttcataccgc	60
------------	------------	------------	------------	------------	------------	----

tnccatcgtc	atactgtagg	tttgccacca	cytcctggca	tcttggggcg	gcntaatatt	120
ccaggaaact	ctcaatcaag	tcaccgtcga	tgaaacctgt	gggctgggtc	tgtcttcgcg	180
tcggtgtgaa	aggatctccc	agaaggagtg	ctcgatcttc	cccacacttt	tgatgacttt	240
attgagtcga	ttctgcatgt	ccagcaggag	gttgtaccag	ctctctgaca	gtgaggtcac	300
cagccctatc	atgccgttga	megtgccgaa	garcaccgag	ccttgtgtgg	gggkkgaggt	360
ctcaccacaga	ttctgcatta	ccagagagcc	gtggcaaaaag	acattgacaa	actcgccacg	420
gtggaaaaaag	amcamctcct	ggargtgctn	gccgtccttc	gtcmgttggt	ggcagcgctw	480
tccttttgac	acacaaaacaa	gttaaaggca	ttttcagccc	ccagaaaantt	gtcatcatcc	540
aagatntcgc	acagcactna	tccagttggg	attaaat			577

<210> 187  
 <211> 534  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(534)  
 <223> n = A,T,C or G

<400> 187						
aacatcttcc	tgtataatgc	tgtgtaatat	cgatccgatn	ttgtctgstg	agaatycatw	60
actkggaaaa	gmaacattaa	agcctggaca	ctggtattaa	aattcacaat	atgcaacact	120
ttaaaccagt	tgtcaatctg	ctcccyynac	tttgtcatca	ccagtctggg	aakaagggtg	180
tgccctattc	acacctgtta	aaagggcgct	aagcattttt	gattcaacat	cttttttttt	240
gacacaagtc	cgaaaaaagc	aaaagtaaac	agttatyaat	ttgttagcca	attcactttc	300
ttcatgggac	agagccatyt	gatttataaa	gcaaattgca	taatattgag	cttygggagc	360
tgatatttga	gcggaagagt	agcctttcta	cttcaccaga	cacaactccc	tttcatattg	420
ggatgttnac	naaagtwatg	tctctwacag	atgggatgct	tttgtggcaa	ttctgttctg	480
aggatctccc	agtttattta	ccacttgcac	aagaaggcgt	tttcttcctc	aggc	534

<210> 188  
 <211> 761  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(761)  
 <223> n = A,T,C or G

<400> 188						
agaaaccagt	atctctnaaa	acaacctctc	ataccttggt	gacctaat	ttgtgtgcgtg	60
tgtgtgtgcg	cgcatattat	atagacaggc	acatcttttt	tacttttgta	aaagcttatg	120
cctctttggg	atctatatct	gtgaaagttt	taatgatctg	ccataatgct	ttggggacct	180
ttgtcttctg	tgtaaatggg	actagagaaa	acacctatnt	tatgagtcaa	tctagttngt	240
tttattcgac	atgaaggaaa	tttccagatn	acaacactna	caaactctcc	ctkgackarg	300
ggggacaaa	aaaagcaaaa	ctgamcataa	raaacaatwa	cctggtgaga	arttgcataa	360
acagaaatwr	ggtagtatat	tgaarnacag	catcattaaa	rmgttwtktt	wttctccctt	420
gcaaaaaaca	tgtacngact	tcccgttgag	taatgccaa	ttgttttttt	tatnataaaa	480
cttgcccttc	attacatggt	tnaaagtggg	gtgggtggcc	aaaatattga	aatgatggaa	540
ctgactgata	aagctgtaca	aataagcagt	gtgcctaaca	agcaacacag	taatgttgac	600
atgcttaatt	cacaaatgct	aatttcatta	taaatgtttg	ctaaaaata	ctttgaacta	660
tttttctgtn	ttcccagagc	tgagatntta	gattttatgt	agtatnaagt	gaaaaantac	720
gaaaataata	acattgaaga	aaaananaaa	aaanaaaaaa	a		761

<210> 189  
 <211> 482

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(482)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 189

tttttttttt	tttgccgatn	ctactatntt	attgcaggan	gtgggggtgt	atgcaccgca	60
caccggggct	atnagaagca	agaaggaagg	agggagggca	cagccccttg	ctgagcaaca	120
aagccgcctg	ctgccttctc	tgtctgtctc	ctggtgcagg	cacatgggga	gaccttcccc	180
aaggcagggg	ccaccagtcc	aggggtggga	atacaggggg	tgggangtgt	gcataagaag	240
tgataggcac	aggccacccg	gtacagaccc	ctcggctcct	gacaggtnga	tttcgaccag	300
gtcattgtgc	cctgcccagg	cacagcgtna	atctggaaaa	gacagaatgc	tttccttttc	360
aaatttggtc	ngtcatngaa	ngggcanttt	tccaanttng	gctnggtcct	ggtacncttg	420
gttcggccca	gtccncgtc	caaaaantat	tcacccnct	ccnaattgct	tgcnggnccc	480
cc						482

&lt;210&gt; 190

&lt;211&gt; 471

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(471)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 190

tttttttttt	ttttaaaaca	gtttttcaca	acaaaattta	ttagaagaat	agtggttttg	60
aaaactctcg	catccagtga	gaactacat	acaccacatt	acagctngga	atgtntccca	120
aatgtctggt	caaatgatac	aatggaacca	ttcaatctta	cacatgcacg	aaagaacaag	180
cgcttttgac	atacaatgca	caaaaaaaaa	aggggggggg	gaccacatgg	attaaaattt	240
taagtactca	tcacatacat	taagacacag	ttctagtcca	gtcnaaaatc	agaactgcnt	300
tgaaaaattt	catgtatgca	atccaaccaa	agaacttnat	tggtgatcat	gantnctcta	360
ctacatcnac	cttgatcatt	gccaggaacn	aaaagttnaa	ancacncngt	acaaaaanaa	420
tctgtaattn	anttcaacct	ccgtacngaa	aaatnttnt	tatacactcc	c	471

&lt;210&gt; 191

&lt;211&gt; 402

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(402)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 191

gagggattga	aggtctgttc	tastgtcggm	ctgttcagcc	accaactcta	acaagttgct	60
gtcttccact	cactgtctgt	aagcttttta	acccagacwg	tatcttcata	aatagaacaa	120
attcttcacc	agtcacatct	tctaggacct	ttttggattc	agttagtata	agctcttcca	180
cttcctttgt	taagacttca	tctggtaaag	tcttaagttt	tgtagaaagg	aattyaattg	240
ctcgttctct	aacaatgtcc	tctccttgaa	gtatttggct	gaacaacca	cctaaagtcc	300
ctttgtgcat	ccatttttaa	tatacttaat	agggcattgk	tncactaggt	taaattctgc	360
aagagtcatc	tgtctgcaaa	agttgcgtta	gtatatctgc	ca		402

<210> 192  
 <211> 601  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(601)  
 <223> n = A,T,C or G

<400> 192  
 gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60  
 ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac 120  
 atgcytyttt gaytaccgtg tgccaagtgc tgggtattct yaacacacyt ccatcccggt 180  
 cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcacc 240  
 acgagacact tgaaagggtg aacaaagcga ytcttgcat gctttttgtc cctccggcac 300  
 cagttgtcaa tactaaccgg ctggtttgcc tccatcacat ttgtgatctg tagctctgga 360  
 tacatctcct gacagtactg aagaacttct tcttttgttt caaaagcacc tcttggtgcc 420  
 tgttggatca ggttcccatt tcccagtcyg aatgttcaca tggcatattt wacttcccac 480  
 aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag 540  
 cctcgatgta gccggccagc gccaaaggcag gcgccgtgag cccaccagc agcagaagca 600  
 g 601

<210> 193  
 <211> 608  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(608)  
 <223> n = A,T,C or G

<400> 193  
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60  
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcytt 120  
 cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tcgtggcttg gggtkgacgg 180  
 tkaagtgcag gaagaggctg accacctcgc ggtccaccag gatgcccgac tgtgcgggac 240  
 ctgcagcgaa actcctcgat ggatcatgagc gggaagcgaa tgaggcccag ggccttgccc 300  
 agaaccttcc gcctgttctc tggcgtcacc tgcagctgct gccgctgaca ctcggcctcg 360  
 gaccagcgga caaacggcrt tgaacagccg cacctcacgg atgccagtg tgtcgcgctc 420  
 caggammgsc accagcgtgt ccagggtcaat gtcggtgaag ccctccgcgg gtrattggcg 480  
 ctgcagtggt tttgtcgatg ttctccaggc acaggctggc cagctgcggg tcatcgaaga 540  
 gtcgcgcctg cgtgagcagc atgaaggcgt tgtcggtcgt cagttcttct tcaggaaactc 600  
 cagcaat 608

<210> 194  
 <211> 392  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(392)  
 <223> n = A,T,C or G

<400> 194  
 gaacggctgg accttgccctc gcattgtgct tgctggcagg gaataccttg gcaagcagyt 60

ccagtcgag	cagccccaga	ccgctgccgc	ccgaagctaa	gcctgcctct	ggccttcccc	120
tccgcctcaa	tgcagaacca	gtagtgggag	cactgtgttt	agagttaaga	gtgaacactg	180
tttgatttta	cttggaatt	tcctctgtta	tatagctttt	cccaatgcta	atttccaaac	240
aacaacaaca	aaataacatg	tttgctgtt	aagttgtata	aaagtaggtg	attctgtatt	300
taaagaaaat	attactgtta	catatactgc	ttgcaatttc	tgtattttatt	gktncstg	360
aaataaatat	agttattaaa	ggttgtcant	cc			392

&lt;210&gt; 195

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(502)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 195

ccsttkgagg	ggtkaggkyc	cagttyccga	gtggaagaaa	caggccagga	gaagtgcgtg	60
ccgagctgag	gcagatgttc	ccacagtgc	ccccagagcc	stgggstata	gtytctgacc	120
cctoncaagg	aaagaccacs	ttctggggac	atgggctgga	gggcaggacc	tagaggcacc	180
aagggaaggc	cccattccgg	ggstgttccc	cgaggaggaa	gggaaggggc	tctgtgtgcc	240
ccccasgagg	aagaggccct	gagtcctggg	atcagacacc	ccttcacgtg	tatccccaca	300
caaatgcaag	ctcaccaagg	tcccctctca	gtccccttcc	stacaccctg	amcggccact	360
gscscacacc	caccagagc	acgccaccgc	ccatggggar	tgtgctcaag	gartcgcnng	420
gcarcgtgga	catctngtcc	cagaaggggg	cagaatctcc	aatagangga	ctgarcmstt	480
gctnanaaaa	aaaaanaaaa	aa				502

&lt;210&gt; 196

&lt;211&gt; 665

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(665)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 196

ggttacttg	tttcattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgtc	60
cctctggaag	ccttgccgag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt	120
wagctgtttk	gagttgatts	gcaccactgc	accacaaact	tcaatatgaa	aacyawttga	180
actwatattat	tatcttgtga	aaagtataac	aatgaaaatt	ttgttcatac	tgtattkatc	240
aagtatgatg	aaaagcaawa	gatatatatt	cttttattat	gttaaattat	gattgccatt	300
attaatcggc	aaaatgtgga	gtgtatgttc	ttttcacagt	aatatatgcc	ttttgttaact	360
tcacttggtt	attttattgt	aatgartta	caaaattcct	aatttaagar	aatggtatgt	420
watatttatt	tcattaattt	ctttcctkgt	ttacgtwaat	tttgaaaaga	wtgcatgatt	480
tcttgacaga	aatcgatcct	gatgctgtgg	aagtagtttg	accacatcc	ctatgagttt	540
ttcttagaat	gtataaagg	tgtagcccat	cnaacttcaa	agaaaaaaat	gaccacatac	600
tttgcaatca	ggctgaaatg	tggcatgctn	ttctaattcc	aactttataa	actagcaaan	660
aagtg						665

&lt;210&gt; 197

&lt;211&gt; 492

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;



<221> misc\_feature  
 <222> (1)...(492)  
 <223> n = A,T,C or G

<400> 197  
 tttntttttt ttttttttgc aggaaggatt ccattttattg tggatgcatt ttcacaatat 60  
 atgttttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120  
 aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgtana gatnacagag 180  
 aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240  
 caaaattcta ccctgaaact tactccatcc aaatatggga ataanagtca gcagtgtac 300  
 attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360  
 tgttcaaaag tacaachnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420  
 catttcactc ccatcacggg agtcaatgct acctgggaca cttgtatttt gttcatnctg 480  
 ancntggctt aa 492

<210> 198  
 <211> 478  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(478)  
 <223> n = A,T,C or G

<400> 198  
 tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60  
 tgtntccaacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120  
 tgagtatatt ttgaaaagga caagttttaa gtanacncat attgccganc atancacatt 180  
 tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaanaaat 240  
 natatatgtc aatcngattt aagatacaaa acagatccta tggtagatan catcntgtag 300  
 gagttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaga gatggcogta 360  
 agcattctag tacctctact ccatgtttaa gaatcgtaca cttatgttta catatgtnca 420  
 gggtaagaat tgtgttaagt naanttatgg agaggtccan gagaaaaatt tgatncaa 478

<210> 199  
 <211> 482  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 199  
 agtgacttgt cctccaacaa aacccttga tcaagtttgt ggcactgaca atcagacct 60  
 tgctagttcc tgtcatctat tcgctactaa atgcagactg gaggggacca aaaaggggca 120  
 tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180  
 agtgattcag tttcctctac ggatgagaga ctggctcaag aatatcctca tgcagcttta 240  
 tgaagccnac tctgaacacg ctggttatct nagatgagaa ncagagaaat aaagtcnaga 300  
 aaatttacct ggangaaaag aggccttngg ctggggacca tccattgaa ctttctctta 360  
 anggacttta agaanaaact accacatgtn tgtngtatcc tgggtgccngg ccgtttantg 420  
 aacntngacn ncacccttnt ggaatanant cttgacngcn tctgaactt gtcctctgc 480  
 ga 482

<210> 200  
 <211> 270

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 200

cggccgcaag	tgcaactcca	gctggggccg	tgccgacgaa	gattctgcc	gcagttggtc	60
cgactgacg	gacggcgcg	gacagtcg	caggtgcagc	gcgggcgcct	ggggtcttgc	120
aaggtgagc	tgacgcccga	gaggtcgtgt	cacgtcccac	gaccttgacg	ccgtcgggga	180
cagccggaac	agagcccggg	gaangcggga	ggcctcgggg	agcccctcgg	gaagggcggc	240
ccgagagata	cgcaggtgca	ggtggccgcc				270

<210> 201

<211> 419

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(419)

<223> n = A,T,C or G

<400> 201

tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttatatttgc	60
gctagcaagg	taacagggtg	gggcatgggt	acatgttcag	gtcaacttcc	tttgtcgtgg	120
ttgattgggt	tgtctttatg	ggggcggggt	ggggtagggg	aaancgaagc	anaantaaca	180
tggagtgggt	gcaccctccc	tgtagaacct	ggttacnaaa	gcttggggca	gttcacctgg	240
tctgtgaccg	tcattttctt	gacatcaatg	ttattagaag	tcaggatata	ttttagagag	300
tccactgtnt	ctggaggggg	attagggttt	cttgccaana	tccaancaaa	atccacntga	360
aaaagttgga	tgatncangt	acngaatacc	ganggcatan	ttctcatant	cggtggcca	419

<210> 202

<211> 509

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(509)

<223> n = A,T,C or G

<400> 202

tttntttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tggcacttaa	tcatttttta	tttcaaaatg	tctacaaant	ttnaatnnc	cattatacng	120
gtnattttnc	aaaatctaaa	nnttattcaa	atntnagcca	aantccttac	ncaaatnnaa	180
tacnncnaaa	aatcaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaaaa	240
aatatatacg	gctgggtgtt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnaa	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatatctc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggcccaaca	480
caatggnaat	nccnccnnc	tggaactagt				509

<210> 203

<211> 583

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(583)

<223> n = A,T,C or G

<400> 203

tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgccataaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggcct	ttttcctaaa	360
agggaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tattttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaag	aaggcttaga	tccttttatg	480
tccatttttag	tcactaaacg	atatcnaaag	tgccagaatg	caaaagggtt	gtgaacattt	540
attcaaaagc	taatataaga	tatttcacat	actcatcttt	ctg		583

<210> 204

<211> 589

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(589)

<223> n = A,T,C or G

<400> 204

ttttttttnt	tttttttttt	tttttttctc	tttttttttt	ttganaatga	ggatcgagtt	60
tttactcttc	tagatagggc	atgaagaaaa	ctcatctttc	cagcttttaa	ataacaatca	120
aatctcttat	gctatatcat	attttaagtt	aaactaatga	gtcactggct	tatcttctcc	180
tgagggaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagagggtt	ttcttctcta	tttacacata	tatttccatg	tgaatttgta	tcaaaccctt	300
attttcatgc	aaactagaaa	ataatgtntt	cttttgcata	agagaagaga	acaatatnag	360
cattacaaaa	ctgctcaaat	tgtttggtta	gnttatccat	tataattagt	tnngcaggag	420
ctaatacaaa	tcacattttac	ngacnagcaa	taataaaaact	gaagtaccag	ttaaatatcc	480
aaaataatta	aagggaacatt	tttagcctgg	gtataattag	ctaattcact	ttacaagcat	540
ttattnagaa	tgaattcaca	tgttattatt	ccntagccca	acacaatgg		589

<210> 205

<211> 545

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(545)

<223> n = A,T,C or G

<400> 205

ttttnttttt	ttttttcagt	aataatcaga	acaatattta	tttttatatt	taaaattcat	60
agaaaagtgc	cttacattta	ataaaaagttt	gtttctcaaa	gtgatcagag	gaattagata	120
tngtcttgaa	caccaatatt	aatttgagga	aaatacacca	aaatacatta	agtaaattat	180
ttaagatcat	agagcttgta	agtgaagaaga	taaaatttga	cctcagaaac	tctgagcatt	240
aaaaatccac	tattagcaaa	taaattacta	tggaacttctt	gctttaattt	tgtgatgaat	300
atgggggtgc	actgggtaaac	caacacattc	tgaaggatac	attacttagt	gatagattct	360

tatgtacttt	gctanatnac	gtggatatga	gttgacaagt	ttctctttct	tcaatctttt	420
aaggggcnga	ngaaatgagg	aagaaaagaa	aaggattacg	catactgttc	tttctatnng	480
aaggattaga	tatgtttcct	ttgccaatat	taaaaaata	ataatgttta	ctactagtga	540
aaccc						545

<210> 206  
 <211> 487  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(487)  
 <223> n = A,T,C or G

<400> 206						
tttttttttt	tttttttagtc	aagtttctna	tttttattat	aattaaagtc	ttggtcattt	60
cattttattag	ctctgcaact	tacatattta	aattaaagaa	acgttnttag	acaactgtna	120
caatttataa	atgtaagggtg	ccattattga	gtanatatat	tcctccaaga	gtggatgtgt	180
cccttctccc	accaactaat	gaancagcaa	cattagttta	attttattag	tagatnatac	240
actgctgcaa	acgctaattc	tcttctccat	ccccatgtng	atattgtgta	tatgtgtgag	300
ttggttnagaa	tgcatacanca	atctnacaat	caacagcaag	atgaagctag	gcntgggctt	360
tcggtgaaaa	tagactgtgt	ctgtctgaat	caaagtatct	gacctatcct	cgggtggcaag	420
aactcttcga	accgcttcct	caaaggcngc	tgccacattt	gtggcntctn	ttgcacttgt	480
ttcaaaa						487

<210> 207  
 <211> 332  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A,T,C or G

<400> 207						
tgaattggct	aaaagactgc	atttttanaa	ctagcaactc	ttatttcttt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttatag	gaccttctgg	tggttctgct	gttacntttg	aantctgaca	atccttgana	180
atctttgcat	gcagaggagg	taaaagggtat	tggattttca	cagaggaana	acacagcgca	240
gaaatgaagg	ggccaggctt	actgagcttg	tccactggag	ggctcatggg	tgggacatgg	300
aaaagaaggc	agcctaggcc	ctggggagcc	ca			332

<210> 208  
 <211> 524  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(524)  
 <223> n = A,T,C or G

<400> 208						
agggcggtgt	gcggaggcgc	ttactgtttt	gtctcagtaa	caataaatac	aaaaagactg	60
gttgtgttcc	ggcccatcc	aaccacgaag	ttgatttctc	ttgtgtgcag	agtgactgat	120
tttaaaggac	atggagcttg	tcacaatgtc	acaatgtcac	agtggtgaag	gcacactcac	180

tcccgcgtga	ttcacattta	gcaaccaaca	atagctcatg	agtcataact	tgtaaatact	240
tttggcagaa	tacttnttga	aacttgcaga	tgataactaa	gatccaagat	atttcccaaa	300
gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagcccag	acactgacat	caaaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgatcatcaga	caggaggctg	tcaccttgac	caaattctca	ccagtcaatc	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccacöttg	gtga		524

<210> 209  
 <211> 159  
 <212> DNA  
 <213> Homo sapien

<400> 209						
gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgctccttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgccccaga	ccctctcca			159

<210> 210  
 <211> 256  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(256)  
 <223> n = A,T,C or G

<400> 210						
actccctggc	agacaaaggc	agaggagaga	gctctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccacttg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctgggttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aaatca					256

<210> 211  
 <211> 264  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 211						
acattgtttt	tttgagataa	agcattgaga	gagctctcct	taacgtgaca	caatggaagg	60
actggaacac	ataccacat	ctttgttctg	agggataatt	ttctgataaa	gtcttgctgt	120
atattcaagc	acatatgtta	tatattattc	agttccatgt	ttatagccta	gttaaggaga	180
ggggagatac	attcngaaag	aggactgaaa	gaaatactca	agtnngaaaa	cagaaaaaga	240
aaaaaaggag	caaatgagaa	gcct				264

<210> 212  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(328)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 212

acccaaaaat ccaatgctga atatttggct tcattattcc canattcttt gattgtcaaa	60
ggattttaatg ttgtctcagc ttgggcactt cagtaggac ctaaggatgc cagccggcag	120
gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag	180
ttnaatttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta	240
cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca	300
tttttttttc ctttattcct ttgtcaga	328

&lt;210&gt; 213

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(250)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 213

acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt	60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct	120
cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt	180
ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct	240
tctcatcggt	250

&lt;210&gt; 214

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(444)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 214

accagaatc caatgctgaa tatttggctt cattattccc agattctttg attgtcaaag	60
gattttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg	120
tttatatatg cagcaacaat attcaagcgc gacaacagg ttattgaact gcccgccagt	180
tgaatttcat tcccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac	240
ccctaogact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat	300
ttttttttcc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag	360
agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt	420
actttgctct ccctaataata cctc	444

&lt;210&gt; 215

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(366)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 215

acttatgagc	agagcgacat	atccaagtgt	anactgaata	aaactgaatt	ctctccagtt	60
taaagcattg	ctcactgaag	ggatagaagt	gactgccagg	agggaaagta	agccaaggct	120
cattatgcc	aagganatat	acatttcaat	tctccaaact	tcttcctcat	tccaagagtt	180
ttcaatattt	gcatgaacct	gctgataagc	catgttgaga	aacaaatata	tctctgacct	240
tctcatcggt	aagcagaggc	tgtaggcaac	atggaccata	gcgaanaaaa	aacttagtaa	300
tccaagctgt	tttctacact	gtaaccaggt	ttccaaccaa	ggtggaaatc	tcctatactt	360
ggtgcc						366

&lt;210&gt; 216

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(260)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 216

ctgtataaac	agaactccac	tgcangaggg	agggccgggc	caggagaatc	tccgcttgct	60
caagacaggg	gcctaaggag	ggtctccaca	ctgctnntaa	gggctnttnc	atttttttat	120
taataaaaag	tnnaaaaagg	ctcttctcaa	cttttttccc	ttnggctgga	aaatttaaaa	180
atcaaaaatt	tcctnaagtt	ntcaagctat	catatatact	ntatcctgaa	aaagcaacat	240
aattcttctt	tcctctcttt					260

&lt;210&gt; 217

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(262)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 217

acctacgtgg	gtaagtttan	aaatgttata	atttcaggaa	naggaacgca	tataattgta	60
tcttgcttat	aattttctat	tttaataagg	aaatagcaaa	ttgggggtggg	gggaatgtag	120
ggcattctac	agtttgagca	aaatgcaatt	aaatgtggaa	ggacagcact	gaaaaatttt	180
atgaataatc	tgtatgatta	tatgtctcta	gagtagattt	ataattagcc	acttacccta	240
atatacttca	tgcttgtaaa	gt				262

&lt;210&gt; 218

&lt;211&gt; 205

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(205)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 218

accaaggtgg	tgcattaccg	gaantggatc	aangacacca	tcgtggccaa	cccctgagca	60
cccctatcaa	ctcccttttg	tagtaaaact	ggaaccttgg	aaatgaccag	gcgaagactc	120
aggcctcccc	agttctactg	acctttgtcc	ttangtntna	ngtccagggt	tgctaggaaa	180
anaaatcagc	agacacaggt	gtaaa				205

<210> 219  
 <211> 114  
 <212> DNA  
 <213> Homo sapien

<400> 219  
 tactgttttg tctcagtaac aataaatatac aaaagactgg ttgtgttccg gccccatcca 60  
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220  
 <211> 93  
 <212> DNA  
 <213> Homo sapien

<400> 220  
 actagccagc acaaaaggca gggtagcctg aattgctttc tgctctttac atttctttta 60  
 aaataagcat ttagtgctca gtcctactg agt 93

<210> 221  
 <211> 167  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(167)  
 <223> n = A,T,C or G

<400> 221  
 actangtgca ggtgcgcaca aatatttgtc gatattccct tcatcttga ttccatgagg 60  
 tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc 120  
 ccccactac cttccctgac gctccccana aatcacccaa cctctgt 167

<210> 222  
 <211> 351  
 <212> DNA  
 <213> Homo sapien

<400> 222  
 agggcggtgt gcgaggggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60  
 gttcttcacc tgtccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120  
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180  
 ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240  
 taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300  
 ctcgtatcaa aacaatagat tggtaaaggt ggtattattg tattgataag t 351

<210> 223  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(383)  
 <223> n = A,T,C or G

<400> 223



aaaacaaaca	aacaaaaaaa	acaattcttc	attcagaaaa	attatcttag	ggactgatat	60
tggttaattat	ggtcaattta	atwrtttkt	ggggcatttc	cttacattgt	cttgacaaga	120
ttaaaatgtc	tgtgcaaaaa	ttttgtattt	tatttgga	cttcttatca	aaagtaatgc	180
tgccaaagga	agtctaagga	attagtagtg	ttcccmcac	ttgtttggag	tgtgctattc	240
taaaagattt	tgatttcctg	gaatgacaat	tatattttaa	ctttgggtgg	ggaaanagtt	300
ataggaccac	agtcttcact	tctgatactt	gtaaattaat	cttttattgc	acttgttttg	360
accattaagc	tatatgttta	aaa				383

&lt;210&gt; 224

&lt;211&gt; 320

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 224

cccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtaccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggaat	attttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgagc	300
tttaractcm	gcattgtgac					320

&lt;210&gt; 225

&lt;211&gt; 1214

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 225

gaggactgca	gcccgcactc	gcagccctgg	caggcggcac	tggtcatgga	aaacgaattg	60
ttctgctcgg	gcgtcctggt	gcattccgag	tggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatgggtg	aggccagcct	ctccgtacgg	caccagagt	acaacagacc	cttgctcgtt	240
aacgacctca	tgtcatcaa	gttgacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagt	ccctaccg	gggaactctt	gcctcgtttc	tggttggggt	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	gggtggtgtc	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatggt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggcccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggtggtgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaagggaatt	720
caggaatata	tggtcccagc	ccctcctccc	tcaggcccag	gagtcaggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccccctct	ccctcagacc	caggagtcca	840
gacccccag	ccctcctccc	ctcagaccga	ggagtccagc	ccctcctccc	tcagaccag	900
gagtcagac	ccccagccc	ctcctccctc	agaccagggt	gtccaggccc	ccaaccctc	960
ctccctcaga	ctcagaggtc	caagccccc	accctcctt	ccccagacc	agaggtccag	1020
gtcccagccc	ctcctccctc	agaccagc	gtccaatgcc	acctagactc	tcctgtaca	1080
cagtgcctcc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	ttttgtccc	1140
tttccctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

&lt;210&gt; 226

&lt;211&gt; 119

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 226

accagtatg	tgacgggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227  
 <211> 818  
 <212> DNA  
 <213> Homo sapien

<400> 227  
 acaattcata gggacgacca atgaggacag ggaatgaacc cggctctccc ccagccctga 60  
 tttttgctac atatggggtc ctttttcatt ctttgcaaaa acactgggtt ttctgagaac 120  
 acggacgggtt cttagcaciaa tttgtgaaat ctgtgtaraa ccgggctttg caggggagat 180  
 aattttcctc ctctggagga aaggtggtga ttgacaggca gggagacagt gacaaggcta 240  
 gagaaagcca cgctcggcct tctctgaacc aggatggaac ggcagacccc tgaaaaagaa 300  
 gcttgctccc ttccaatcag ccacttctga gaacccccat ctaacttctt actggaaaag 360  
 agggcctcct caggagcagt ccaagagttt tcaaagataa cgtgacaact accatctaga 420  
 ggaaagggtg caccctcagc agagaagccg agagcttaac tctggctcgtt tccagagaca 480  
 acctgctggc tgtcttggga tgcgccagc ctttgagagg ccactacccc atgaacttct 540  
 gccatccact ggacatgaag ctgaggacac tgggcttcaa cactgagttg tcatgagagg 600  
 gacaggctct gccctcaagc cggctgaggg cagcaaccac tctcctcccc tttctcacgc 660  
 aaagccattc ccacaaatcc agaccatacc atgaagcaac gagacccaaa cagtttgggt 720  
 caagaggata tgaggactgt ctgagcctgg ctttgggctg acaccatgca cacacacaag 780  
 gtccacttct aggttttcag cctagatggg agtcgtgt 818

<210> 228  
 <211> 744  
 <212> DNA  
 <213> Homo sapien

<400> 228  
 actggagaca ctgttgaact tgatcaagac ccagaccacc ccaggctctcc ttcgtgggat 60  
 gtcattgacgt ttgacatacc tttggaacga gcctcctcct tgggaagatgg aagaccgtgt 120  
 tcgtggccga cctggcctct cctggcctgt ttcttaagat gcggagtcac atttcaatgg 180  
 taggaaaagt ggcttcgtaa aatagaagag cagtcactgt ggaactacca aatggcgaga 240  
 tgctcgggtc acattggggt gctttgggat aaaagattta tgagccaact attctctggc 300  
 accagattct aggccagttt gttccactga agcttttccc acagcagtcc acctctgcag 360  
 gctggcagct gaatggcttg ccggtggctc tgtggcaaga tcacactgag atcgatgggt 420  
 gagaaggcta ggatgcttgt ctagtgttct tagctgtcac gttggctcct tccaggttgg 480  
 ccagacgggtg ttggccactc ccttctaaaa cacaggcgcc ctctgggtga cagtgaccg 540  
 ccgtgggtatg ccttggccca ttccagcagt cccagttatg catttcaagt ttgggggttg 600  
 ttcttttctg taatgttctt ctgtgttgtc agctgtcttc atttcttggg ctaagcagca 660  
 ttgggagatg tggaccagag atccactcct taagaaccag tggcgaaaga cactttcttt 720  
 cttcactctg aagtagctgg tggt 744

<210> 229  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 229  
 cgagtctggg ttttgtctat aaagtttgat ccctcctttt ctcatccaaa tcatgtgaac 60  
 cattacacat cgaaataaaa gaaaggtggc agacttgccc aacgccaggc tgacatgtgc 120  
 tgcagggttg ttgtttttta attattattg ttagaaacgt caccacagc ccctgttaat 180  
 ttgtatgtga cagccaactc tgagaaggct ctatttttcc acctgcagag gatccagtct 240  
 cactaggctc ctcttgccc tcacactgga gtctccgcca gtgtgggtgc ccactgacat 300

<210> 230  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 230

cagcagaaca	aatacaaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcttggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cggaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

&lt;210&gt; 231

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 231

gcaagcacgc	tggcaaatct	ctgtcaggtc	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtccacat	ccttggcaac	tggggacttg	cgaggttag	ccttgaggat	120
ggcaacacgg	gactttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	ccggttggtg	ccgccaatga	tgaacacatt	240
tttttttggtg	gacatgccat	ccattttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

&lt;210&gt; 232

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 232

agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggcttcctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtc	atctgctgtg	aaggagagac	agagaactct	gggttcctgc	gtcctgtcca	180
cgtgctgtac	caagtgtctg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

&lt;210&gt; 233

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 233

atgactgact	tccagtaag	gctctctaag	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctggtgc	gctggcaccc	ctggcctcac	acagactocc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgcg	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

&lt;210&gt; 234

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 234

aggctctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
cattttatcc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaatttct	tcaggattta	aaatcttgag	ggattgatct	180
cgctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgcc	240
ttgatcacca	gcttaatggg	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300

t

301

<210> 235  
<211> 283  
<212> DNA  
<213> Homo sapien

<400> 235

tggggctgtg	catcaggcgg	gtttgagaaa	tattcaattc	tcagcagaag	ccagaatttg	60
aattccctca	tcttttaggg	aatcatttac	caggtttgga	gaggattcag	acagctcagg	120
tgctttcact	aatgtctctg	aacttctgtc	cctctttgtt	catggatagt	ccaataaata	180
atgttatctt	tgaactgatg	ctcataggag	agaatataag	aactctgagt	gatatcaaca	240
ttagggattc	aaagaaatat	tagattttaag	ctcacactgg	tca		283

<210> 236  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggg	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccctaa	cccacatgca	atcttcttca	ccagaagagg	120
tcggagcagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tgggtagacg	gtttcatgag	tacagtgtac	tgtggtatcg	taatctggac	ttgggttgta	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 237

cagtggtagt	ggtggtggac	gtggcggttg	tcgtggtgcc	ttttttggtg	cccgtcacaa	60
actcaatttt	tgttcgctcc	tttttggcct	tttccaattt	gtccatctca	attttctggg	120
ccttggttaa	tgccatcatg	taggagtcct	cagaccagcc	atggggatca	aacatatcct	180
ttgggtagtt	ggtgccaagc	tcgtcaatgg	cacagaatgg	atcagcttct	cgtaaatacta	240
gggttccgaa	attctttctt	cctttggata	atgtagttca	tatccattcc	ctcctttatc	300
t						301

<210> 238  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 238

gggcagggttt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacggggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtcg	aggtctctcca	gggttcccca	gcccataat	cattttctgc	180
acccccctgcc	tggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggtctgt	tcttcacagt	aggaggtgga	agggatgact	aattttctta	300
t						301

<210> 239  
<211> 239  
<212> DNA  
<213> Homo sapien

&lt;400&gt; 239

ataagcagct	aggggaattct	ttatttagta	atgtcctaac	ataaaaagttc	acataactgc	60
ttctgtcaaa	ccatgatact	gagctttgtg	acaacccaga	aataactaag	agaaggcaaa	120
cataatacct	tagagatcaa	gaaacattta	cacagttcaa	ctgttttaaa	atagctcaac	180
attcagccag	tgagtagagt	gtgaatgcc	gcatacacag	tatacaggtc	cttcaggga	239

&lt;210&gt; 240

&lt;211&gt; 300

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 240

ggtcctaag	aagcagcagc	ttccacattt	taacgcaggt	ttacggtgat	actgtccttt	60
gggatctgcc	ctccagtga	accttttaag	gaagaagtgg	gccaagcta	agttccacat	120
gctgggtgag	ccagatgact	tctgttccct	ggtcactttc	ttcaatgggg	cgaatggggg	180
ctgccaggtt	tttaaaatca	tgcttcatct	tgaagcacac	ggtcacttca	ccctcctcac	240
gctgtgggtg	tactttgatg	aaaataccca	ctttgttggc	ctttctgaag	ctataatgtc	300

&lt;210&gt; 241

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 241

gaggtctggt	gctgaggtct	ctgggctagg	aagaggagtt	ctgtggagct	ggaagccaga	60
cctctttgga	ggaaactcca	gcagctatgt	tggtgtctct	gagggaatgc	aacaaggctg	120
ctcctccatg	tattggaaaa	ctgcaaactg	gactcaactg	gaaggagtg	ctgctgccag	180
tgtgaagaac	cagcctgagg	tgacagaaac	ggaagcaaac	aggaacagcc	agtcttttct	240
tcctcctcct	gtcatacggg	ctctctcaag	catcctttgt	tgtcaggggc	ctaaaaggga	300
g						301

&lt;210&gt; 242

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 242

ccgaggtcct	gggatgcaac	caatcactct	gtttcacgtg	acttttatca	ccatacaatt	60
tgtggcattt	cctcattttc	tacattgtag	aatcaagagt	gtaaataaat	gtatatcgat	120
gtcttcaaga	atatatcatt	cctttttcac	tagaaccat	tcaaaatata	agtcaagaat	180
cttaatatca	acaaatatat	caagcaaact	ggaaggcaga	ataactacca	taatttagta	240
taagtaccca	aagttttata	aatcaaaagc	cctaattgata	accattttta	gaattcaatc	300
a						301

&lt;210&gt; 243

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 243

aggtaaagtcc	cagtttgaag	ctcaaaagat	ctggtatgag	catagggtca	tcgacgacat	60
ggtggcccaa	gctatgaaat	cagagggagg	cttcatctgg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tgcccaagg	gtatggctct	ctcggcatga	tgaccagcgt	180
gctggtttgt	ccagatggca	agacagtaga	agcagaggct	gccacggga	ctgtaacccg	240
tcactaccgc	atgttcaga	aaggacagga	gacgtccacc	aatcccattg	cttccatttt	300
t						301

&lt;210&gt; 244

<211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 244  
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60  
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120  
 ccagggaacct tggaaacagt tgacactgta aggtgcttgc tccccaagac acatcctaaa 180  
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ctttcttatt tatgtgaaca 240  
 actgtttgtc ttttgtgtat cttttttaaa ctgtaaaagt caattgtgaa aatgaatatc 300

<210> 245  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 245  
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagaggt 60  
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120  
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180  
 gttttcaaag agcagagatg caattaaata ttgtttagca tcaaaaaggc cactcaatac 240  
 agctaataaa atgaaagacc taatttctaa agcaattctt tataatttac aaagttttaa 300  
 g 301

<210> 246  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 246  
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60  
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120  
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180  
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240  
 caaatgtgtc ttacaaaaca cgttcctaac aaggatatgt ttacactacc aatgcagaaa 300  
 c 301

<210> 247  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 247  
 aggtcctttg gcagggtca tggatcagag ctcaaactgg agggaaaggc atttcgggta 60  
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttggtt cccccacgct 120  
 gtgtcctgtg ttcagggtcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180  
 ccttgatgat caaggttggg gcttaagtgg attaagggag gcaagttctg gggtccttgc 240  
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300  
 a 301

<210> 248  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 248  
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttoggaagta caccctcact 60  
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa ctaagaatt 120

acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180  
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240  
ctaagagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300  
c 301

<210> 249

<211> 301

<212> DNA

<213> Homo sapien

<400> 249

gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag 60  
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgccccgcc 120  
ccaggagac acagcagtga ctacagagctg gtcgcacact gtgcctccct cctcaccgcc 180  
catcgtaatg aattattttg aaaattaatt ccaecatcct ttcagattct ggatggaaag 240  
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300  
a 301

<210> 250

<211> 301

<212> DNA

<213> Homo sapien

<400> 250

ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacactttctc 60  
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120  
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180  
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240  
caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300  
a 301

<210> 251

<211> 301

<212> DNA

<213> Homo sapien

<400> 251

gccgaggctc tacatttggc ccagtttccc cctgcatect ctccagggcc cctgcctcat 60  
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120  
ggcagggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180  
cattgggatac aatgaaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgga 240  
cctctggagg ggggcagtgg aatcccagct ccaggacgga tctgtctgaa aagatactc 300  
c 301

<210> 252

<211> 301

<212> DNA

<213> Homo sapien

<400> 252

gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttctca 60  
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata 120  
tcatttcctt ttacttagga acccattcaa aatataagtc aagaatctta atatcaacaa 180  
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag taccctaaag 240  
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc 300  
a 301

<210> 253

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 253  
 ttccctaaga agatgttatt ttgttgggtt ttgttcccc tccatctcga ttctcgtacc 60  
 caactaaaaa aaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcccttagct 120  
 tggctcgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg 180  
 gatttttttt cttagagaac cacaaaacat aaaaggagca agtcggactg aatacctgtt 240  
 tccatagtgc ccacagggtta ttcctcacat tttctccata ggaaaatgct ttttcccaag 300  
 g 301

<210> 254  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 254  
 cgctgcgcct ttcccttggg ggaggggcaa ggccagaggg ggtccaagtg cagcacgagg 60  
 aacttgacca attcccttga agcgggtggg tttaaccctg taaatgggaa caaaatcccc 120  
 ccaaattctct tcatcttacc ctggtggact cctgactgta gaattttttg gttgaaacaa 180  
 gaaaaaaata aagcttttga cttttcaagg ttgcttaaca ggtactgaaa gactggcctc 240  
 acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc 300  
 t 301

<210> 255  
 <211> 302  
 <212> DNA  
 <213> Homo sapien

<400> 255  
 agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa 60  
 attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggat 120  
 tgggattttg ttgagttcct caagcatctc ctaataccct caagggcctg agtagggggt 180  
 aggaaaaagg actggagggt gaatctttat aaaaaacaag agtgattgag gcagattgta 240  
 aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac 300  
 aa 302

<210> 256  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 256  
 gttccagaaa acattgaagg tggcttccca aagtctaact agggataccc cctctagcct 60  
 aggaccctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120  
 acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcatctctat 180  
 aggcaaatag ctgctggcaa actggcatta cctggtttgt ggggatgggg gggcaagtgt 240  
 gtggcctctc ggcctggtta gcaagaacat tcagggtagg cctaagttan tcgtgttagt 300  
 t 301

<210> 257  
 <211> 301



&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 257

```

gttggtggagg aactctggct tgctcattaa gtcctactga ttttcactat cccctgaatt      60
tccccactta tttttgtctt tcaactatcgc aggccttaga agaggtctac ctgcctccag      120
tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat      180
gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga      240
tcttaatctt cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc      300
c                                                                    301

```

&lt;210&gt; 258

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 258

```

cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc      60
aggggcccaag ccaccaggcg cagaagcaag ataacacagta ggctcaagac cagagccacc      120
cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg      180
atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtggtgtcat      240
tggtgatccc tgggagcgcc ggtggagtaa cgttgggtcca tggaaagcag cgcccacaac      300
t                                                                    301

```

&lt;210&gt; 259

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 259

```

tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg      60
gtgtcctgaa gtgatttggg cccctgaggg cagacaccta agtaggaatc ccagtgggaa      120
gcaaagccat aaggaagccc aggattcctt gtgatcagga agtggggccag gaaggctctgt      180
tccagctcac atctcatctg catgcagcac ggaccggatg cgcccactgg gtcttggctt      240
ccctcccatc ttctcaagca gtgtccttgt tgagccattt gcaccccttg ctccaggctg      300
c                                                                    301

```

&lt;210&gt; 260

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 260

```

ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatggt      60
aagggtgtctt aacttgaaaa agattaggag tcaactggttt acaagttata attgaatgaa      120
agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaca caggattaac      180
tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttaataaac agactgattc      240
actgagacat cagtacctgc ccgggcggcc gctcgagccg aattctgcag atatccatca      300

```

c

301

<210> 261  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 261

```

aaatattcga gcaaattcctg taactaatgt gtctccataa aaggctttga actcagtga 60
tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaagggt 120
agcaccaact attccataca attcatcagc aggaaataaa ggctcttcag aaggttcaat 180
ggtgacatcc aatttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240
ggcatgatga tcatccaaag ccagtggtc acttactcca gactttctgc aatgaagatc 300
a 301

```

<210> 262  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 262

```

gaggagagcc tgttacagca ttgttaagca cagaatactc caggagtatt tgtaattgtc 60
tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatcc ctgagtcacc 120
cctagacttc ctaaacacaga tcctctgggg ctggaacctg gcaactctgca ttgttaatga 180
gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtgcc 240
catcattacc cccacattat aatgggatag attcagagca gatactctcc agcaagaat 300
c 301

```

<210> 263  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 263

```

tttagcttgt ggtaaattgac tcacaaaact gattttaaaa tcaagttaat gtgaattttg 60
aaaattacta cttaatccta attcacaata acaatggcat taaggtttga cttgagttgg 120
ttcttagtat tatttatggt aaataggctc ttaccacttg caaataactg gccacatcat 180
taatgactga cttcccagta aggtctctta aggggtaagt angaggatcc acaggatttg 240
agatgctaag gccccagaga tcgtttgatc caaccctctt attttcagag gggaaaatgg 300
g 301

```

<210> 264  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 264

```

aaagacgtta aaccactcta ctaccacttg tggaactctc aaagggtaaa tgacaaascc 60
aatgaatgac tctaaaaaca atatttacat ttaatggttt gtagacaata aaaaaacaag 120
gtggatagat ctagaattgt aacattttta gaaaaccata scatttgaca gatgagaaag 180
ctcaattata gatgcaaagt tataactaaa ctactatagt agtaaagaaa tacatttcac 240
acccttcata taaattcact atcttggtt gaggcactcc ataaaatgta tcacgtgcat 300
a 301

```

<210> 265  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 265  
 tgcccaagtt atgtgtaagt gtatccgcac ccagaggtaa aactacactg tcattcttgt 60  
 ctctctgtga cgcagtattt ctctctgtgg gagaagccgg gaagtcttct cctggctcta 120  
 catattcttg gaagtctcta atcaactttt gttccatttg ttctatttct tcaggaggga 180  
 ttttcagttt gtcaacatgt tctctaaca cacttgccca ttctgtaaa gaatccaaag 240  
 cagtcacaagg ctttgacatg tcaacaacca gcataactag agtatccttc agagatacgg 300  
 c 301

<210> 266  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 266  
 taccgtctgc ctttctctcc atccaggcca tctgcgaatc tacatgggtc ctctattctg 60  
 acaccagatc actctttcct ctaccacag gcttgctatg agcaagagac acaacctcct 120  
 ctctctgtg ttccagcttc ttttctgtt ctcccaccc cttaagtctt attcctgggg 180  
 atagagacac caatacccat aacctctctc ctaagcctcc ttataaccca ggggtgcacag 240  
 cacagactcc tgacaactgg taaggccaat gaactgggag ctacacagctg gctgtgcctg 300  
 a 301

<210> 267  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 267  
 aaagagcaca ggccagctca gcctgccctg gccatctaga ctacagcctg ctccatgggg 60  
 gttctcagtg ctgagtcctt ccaggaaaag ctacacctaga cttctgagg ctgaatcttc 120  
 atcctcacag gcagcttctg agagcctgat attcctagcc ttgatgggtc ggagtaaagc 180  
 ctattctga ttctctctct tcttttctt caagttgggt ttctctacat cctctgttc 240  
 aattcgcttc agcttgctg ctttagccct catttcagga agcttcttct ctttggcatc 300  
 t 301

<210> 268  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 268  
 aatgtctcac tcaactactt ccagcctac cgtggcctaa ttctgggagt tttcttctta 60  
 gatcttggga gagctggttc ttctaaggag aaggagggaag gacagatgta actttggatc 120  
 tcgaagagga agtctaattg aagtaattag tcaacgggtc ttgttttagac tcttgggaata 180  
 tgctgggtgg ctacgtgagc ctttttggag aaagcaagta ttattcttaa ggagtaacca 240  
 cttccattg ttctactttc taccatcatc aattgtatat tatgtattct ttggagaact 300  
 a 301

<210> 269  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 269

taacaatata	cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagtttaact	120
atagtcacag	accttaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
cttttctgga	tattctttac	aaaatcttat	taaaattcct	ggtattatca	cccccaatta	240
tacagtagca	caaccacctt	atgtagtttt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

&lt;210&gt; 270

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgtt	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttatttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgctg	gtgcagtgc	tattggataa	cactattcat	ggccgaattg	atcaagtcaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtggtgca	cgatatactg	cactagataa	240
tggaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggctt	aacagaaaac	300
a						301

&lt;210&gt; 271

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 271

aaaaggttct	cataagatta	acaatttaaa	taaatatttg	atagaacatt	ctttctcatt	60
tttatagctc	atcttttagg	ttgatattca	gttcatgtt	cccttgctgt	tcttgatcca	120
gaattgcaat	cacttcatca	gcctgtattc	gtcceaattc	tctataaagt	gggtccaagg	180
tgaaccacag	agccacagca	cacctcttcc	ccttggtgac	tgcttcacc	ccatganggt	240
tctctcctcc	agatganaac	tgatcatgcg	cccacatttt	gggttttata	gaagcagtca	300
c						301

&lt;210&gt; 272

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 272

taaattgcta	agccacagat	aacaccaatc	aatggaaca	aatcaactgtc	ttcaaagtgc	60
ttatcagaaa	accaaagag	cctggaatct	tcataatacc	taaacatgcc	gtatttagga	120
tccaataatt	ccctcatgat	gagcaagaaa	aattctttgc	gcaccctcc	tgcatccaca	180
gcatcttctc	caacaaatat	aaccttgagt	ggcttcttgc	aatctatgtt	ctttgttttc	240
ctaaggactt	ccattgcac	tctacaata	ttttctctac	gcaccactag	aattaagcag	300
g						301

&lt;210&gt; 273

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 273  
 acatgtgtgt atgtgtatct ttgggaaan aanaagacat cttgtttayt atttttttgg 60  
 agagangctg ggacatggat aatcacwtaa ttgtctayta tyactttaat ctgactygaa 120  
 gaaccgtcta aaaataaaat ttaccatgtc dtatatctct tatagtatgc ttatttcacc 180  
 ttttttctgt ccagagagag tatcagtgc ananatttma ggggtgaamac atgmattggg 240  
 gggacttnty tttacngagm accctgcccg sgcgccctcg makcngantt ccgcsananc 300  
 t 301

<210> 274  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 274  
 cttatatact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg 60  
 aacagtaaatt gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa 120  
 tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggt gaaaagtcca 180  
 tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc 240  
 aattgtgctt cttttgataa gaagctttct tggtcatatc aggaaattcc aganaaaagtc 300  
 c 301

<210> 275  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 275  
 tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg 60  
 gggtgaaatt ggccaacttt ctattaactt atgttggcaa ttttgccacc aacagtaagc 120  
 tggccottct aataaaagaa aattgaaagg tttctcacta aacggaatta agtagtgag 180  
 tcaagagact cccaggcctc agcgtacctg cccgggcggc cgctcgaagc cgaattctgc 240  
 agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat 300  
 a 301

<210> 276  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 276  
 tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat 60  
 ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat 120  
 taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc 180  
 caatacatth aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt 240

aaaactattc agtatgtttc ctttgcttca tctctgagaa ggctctcctt caatggggat 300  
g 301

<210> 277  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 277  
tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag 60  
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg 120  
gaatcatggc actcctgata ctttcccaa tcaacactct caatgcccc cctcgtcct 180  
caccatagtg gggagactaa agtggccacg gatttgcctt anggtgtgcag tgcgttctga 240  
gttcnctgtc gattacatct gaccagtctc ctttttccga agtcntccg ttcaatcttg 300  
c 301

<210> 278  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 278  
taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60  
aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120  
cagtctctac tgttattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180  
aatgaacatc tcatgtgtgc tcacaatgtt ctggcactat tataagtgtc tcacaggttt 240  
tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300  
c 301

<210> 279  
<211> 301  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(301)  
<223> n = A,T,C or G

<400> 279  
aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60  
gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120  
ttagaccttt acctccagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180  
atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240  
catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300  
a 301

<210> 280

<211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 280  
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60  
 tagaaagggtg gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120  
 tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180  
 gtttgatata gtttaggggtt ggggttagat taagatctaa attacatcag gacaaagaga 240  
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300  
 t 301

<210> 281  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 281  
 aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60  
 gccgagcaat ccaaatacctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120  
 atgtggtagc aatggccttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180  
 tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc 240  
 tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagt gacgtacctc 300  
 g 301

<210> 282  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 282  
 caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60  
 tccagaaccc aaaaattaaag aaattcaaaa agacattttg tgggcacctg ctagcacaga 120  
 agcgcagaag caaagcccag gcagaacctat gctaaccctta cagctcagcc tgcacagaag 180  
 cgcagaagca aagcccaggc agaacctatg taaccttaca gctcagcctg cacagaagcg 240  
 cagaagcaaa gcccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300  
 a 301

<210> 283  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 283  
 atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaaag 60  
 cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca 120  
 gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc 180  
 acttcccagg ttttatgcaa aaattttggt aaattctata atggtgatat gcatctttta 240  
 ggaaacatat acatttttaa aaatctatct tatgtaagaa ctgacagacg aatttgcttt 300  
 g 301

<210> 284  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 284  
 caggtaaaaa acgctattaa gtggccttaga atttgaacat ttgtggctctt tattttacttt 60

```

gcttcgtgtg tgggcaaagc aacatcttcc ctaaatatat attaccaaga aaagcaagaa      120
gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat      180
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt      240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaatt      300
a                                                                                   301

```

```

<210> 285
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 285
acatcaccat gatcggatcc cccacccatt atacgttgta tgtttacata aatactcttc      60
aatgatcatt agtggtttta aaaaaatact gaaaactcct tctgcatccc aatctctaac      120
caggaaagca aatgctatct acagacctgc aagccctccc tcaaacnaaa ctatttctgg      180
attaaatatg tctgacttct tttgaggcca cacgactagg caaatgctat ttacgatctg      240
caaaagctgt ttgaagagtc aaagccccc tgtgaacacg atttctggac cctgtaacag      300
t                                                                                   301

```

```

<210> 286
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 286
taccactgca ttccagcctg ggtgacagag tgagactccg tctccaaaaa aaactttgct      60
tgtatattat ttttgcctta cagtggatca ttctagtagg aaaggacagt aagatttttt      120
atcaaaatgt gtcatgccag taagagatgt tatattcttt tctcatttct tccccacca      180
aaaataagct accatatagc ttataagtct caaatTTTTT ccttttacta aaatgtgatt      240
gtttctgttc attgtgtatg cttcatcacc tatattaggc aaattccatt ttttcccttg      300
t                                                                                   301

```

```

<210> 287
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 287
tacagatctg ggaactaaat attaaaaatg agtgtggctg gatatatgga gaatgttggg      60
cccagaagga acgtagagat cagatattac aacagctttg ttttgagggg tagaaatatg      120
aaatgatttg gttatgaacg cacagtttag gcagcagggc cagaatcctg accctctgcc      180
ccgtggttat ctctcccca gottggctgc ctcatgttat cacagtattc cattttgttt      240
gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt tttcctctca ttggtaatgc      300
t                                                                                   301

```

```

<210> 288
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 288
gtacacctaa ctgcaaggac agctgaggaa tgtaatgggc agccgctttt aaagaagtag      60
agtcaatagg aagacaaatt ccagttccag ctcagtctgg gtatctgcaa agctgcaaaa      120

```



gatcttttaa gacaatttca agagaatatt tccttaaagt tggcaatttg gagatcatac 180  
aaaagcatct gcttttgatg ttttaatttag ctcatctggc cactggaaga atccaaacag 240  
tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa 300  
a 301

<210> 289

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 289

ggtacactgt ttccatgta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60  
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatctttg 120  
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180  
cgttctataa atgaatgtgc tgaagcaaag tgcccatggg ggcggcgaan aagagaaaga 240  
tgtgttttgt tttggactct ctgtgggtcc ttccaatgct gtgggtttcc aaccagnnga 300  
a 301

<210> 290

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 290

acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60  
tgactgatct gttcatttct ctccacagctc ttaccccca aagcttttcc accctaagtg 120  
ttctgacctc ctttttcta ctagtaggg atagaggcag anccacctac aatgaacatg 180  
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240  
tgccttgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtgag 300  
a 301

<210> 291

<211> 301

<212> DNA

<213> Homo sapien

<400> 291

caggtaccaa tttcttctat cctagaaaca tttcatttta tgttgttgaa acataacaac 60  
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120  
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagtccaat 180  
agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240  
acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300  
a 301

<210> 292

<211> 301

<212> DNA

<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 292  
 accttttagt agtaatgtct aataataaat aagaaatcaa ttttataagg tccatatagc 60  
 tgtattaaat aatttttaag tttaaaagat aaaataccat cattttaaat gttggtattc 120  
 aaaaccaaag natataaccg aaaggaaaaa cagatgagac ataaaatgat ttgcnagatg 180  
 ggaaatatag tasttyatga atgttnatta aattccagtt ataatagtgg ctacacactc 240  
 tctactacaca cacagacccc acagtcctat atgccacaaa cacatttcca taacttgaaa 300  
 a 301

<210> 293  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 293  
 ggtaccaagt gctggtgcc a gctgttacc tgttctcact gaaaagtctg gctaattgctc 60  
 ttgtgtagtc acttctgatt ctgacaatca atcaatcaat ggcctagagc actgactgtt 120  
 aacacaaacg tctactagca agtagcaaca gctttaagtc taaatacaaaa gctgttctgt 180  
 gtgagaattt tttaaaaggc tacttgtata ataacccttg tcatttttaa tgtacctcgg 240  
 ccgcgaccac gctaagccga attctgcaga tatccatcac actggcggcc gctcgagcat 300  
 g 301

<210> 294  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 294  
 tgaccataa caatatacac tagctatctt ttttaactgtc catcattagc accaatgaag 60  
 attcaataaa attaccttta ttcacacatc tcaaaacaat tctgcaaatt cttagtgaag 120  
 ttttaactata gtcacaganc ttaaatattc acattgtttt ctatgtctac tgaaaataag 180  
 ttcactactt ttctgggata ttctttacaa aatcttatta aaattcctgg tattatcacc 240  
 occaattata cagtagcaca accaccttat gtagttttta catgatagct ctgtagaggt 300  
 t 301

<210> 295  
 <211> 305  
 <212> DNA  
 <213> Homo sapien

<400> 295  
 gtactctttc tctcccctcc totgaattta attctttcaa cttgcaattt gcaaggatta 60  
 cacatttcac tgtgatgtat attgtgttgc aaaaaaaaaa gtgtctttgt ttaaaattac 120  
 ttggttttgg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180  
 actggtagaa aaacrtctga agagctagtc tatcagcatc tgacagggtga attggatggg 240  
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttgggt 300  
 tctct 305

<210> 296  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 296  
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60  
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120  
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180  
 tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240  
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300  
 c 301

<210> 297  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(300)  
 <223> n = A,T,C or G

<400> 297  
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60  
 aaggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120  
 acaaangan t gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180  
 tccatcattg ggagtgcact ggccatccct caaaatttgc ctgggctggc ctgagtgggc 240  
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc aactggcgcg 300

<210> 298  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(301)  
 <223> n = A,T,C or G

<400> 298  
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60  
 ggcactctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg 120  
 tgaagctctc agatcaatca cgggaagggc ctggcggtgg tggccacctg gaaccacct 180  
 gtctgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttccccta 240  
 caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctacgcgagg 300  
 t 301

<210> 299  
 <211> 301  
 <212> DNA  
 <213> Homo sapien

<400> 299  
 gttttgagac ggagtttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60  
 tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc 120  
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180  
 gaggtttcgcc atgttggccca gctgggtctca aactcctgac ctcaagcgac ctgcctgcct 240

cggcctccca aagtgtgga attataggca tgagtcaaca cgcccagcct aaagatattt 300  
t 301

<210> 300  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 300  
attcagtttt atttgtgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60  
tatgtccac acccactggg aaaggctccc acctggctac ttcctctatc agctgggtca 120  
gctgcattcc acaaggttct cagcctaata agtttacta cctgccagtc tcaaaactta 180  
gtaaagcaag accatgacat tccccacgg aaatcagagt ttgcccacc gtcttggtac 240  
tataaagcct gcctctaaca gtccttgctt cttcacacca atcccgagcg catcccccat 300  
g 301

<210> 301  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 301  
ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc 60  
agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt 120  
gggaactcac aaagaccctc agagctgaga caccacaac agtgggagct cacaagacc 180  
ctcagagctg agacacccac aacagtggga gctcacaag accctcagag ctgagacacc 240  
cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300  
t 301

<210> 302  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 302  
aggtacacat ttagcttgtg gtaaatagact cacaaaactg attttaaaat caagttaatg 60  
tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120  
ttgagttggt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180  
ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240  
caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctotta ttttcagagg 300  
g 301

<210> 303  
<211> 301  
<212> DNA  
<213> Homo sapien

<400> 303  
aggtaccaac tgtggaataa ggtagaggat ctttttttct ttccatatca actaagttgt 60  
atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac 120  
tggctaattg aactaccgct tgcattgtaa aaatgggtgt ttgtgaaatg atcataggcc 180  
agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc 240  
catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300  
c 301

<210> 304  
<211> 301  
<212> DNA

<213> Homo sapien

<400> 304

acatggatgt	tattttgcag	actgtcaacc	tgaatttgta	tttgcttgac	attgccta	60
tattagtttc	agtttcagct	taccactttt	ttgtctgcaa	catgcaraas	agacagtgcc	120
cttttttagtg	tatcatatca	ggaatcatct	cacattgggt	tgtgccatta	ctgggtgcagt	180
gactttcagc	cacttgggta	aggtggagtt	ggccatatgt	ctccactgca	aaattactga	240
ttttcctttt	gtaattaata	agtgtgtgtg	tgaagattct	ttgagatgag	gtatataatct	300
c						301

<210> 305

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 305

gangtacagc	gtgggtcaagg	taacaagaag	aaaaaaatgt	gagtggcatc	ctgggatgag	60
cagggggaca	gacctggaca	gacacgttgt	catttgctgc	tgtgggtagg	aaaatgggag	120
taaaggagga	gaaacagata	caaaatctcc	aactcagtat	taaggtattc	tcatgcctag	180
aatattggta	gaaacaagaa	tacattcata	tggcaaataa	ctaaccatgg	tggaacaaaa	240
ttctgggatt	taagttggat	accaangaaa	ttgtattaaa	agagctgttc	atggaataag	300
a						301

<210> 306

<211> 8

<212> PRT

<213> Homo sapien

<400> 306

Val	Leu	Gly	Trp	Val	Ala	Glu	Leu
1					5		

<210> 307

<211> 637

<212> DNA

<213> Homo sapien

<400> 307

acaggggatg	aagggaaagg	gagaggatga	ggaagccccc	ctggggattt	ggtttgggtcc	60
ttgtgatcag	gtggtctatg	gggcttatcc	ctacaaagaa	gaatccagaa	atagggggcac	120
attgaggaat	gatacttgag	cccaaagagc	attcaatcat	tgttttattt	gccttmtttt	180
cacaccattg	gtgaggagg	gattaccacc	ctgggggttat	gaagatgggt	gaacacccca	240
cacatagcac	cggagatatg	agatcaacag	tttcttagcc	atagagattc	acagcccaga	300
gcaggaggac	gcttgcacac	catgcaggat	gacatggggg	atgcgctcgg	gattgggtgtg	360
aagaagcaag	gactgttaga	ggcaggcttt	atagtaacaa	gacggtgggg	caaactctga	420
tttcctgagg	ggaatgtcat	ggtcttgctt	tactaagttt	tgagactggc	aggtagtga	480
actcattagg	ctgagaacct	tgtggaatgc	acttgaccca	sctgatagag	gaagtagcca	540
ggtgggagcc	tttcccagtg	ggtgtgggac	atatctggca	agattttgtg	gcactcctgg	600
ttacagatac	tggggcagca	aataaaactg	aatctttg			637

<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

acgattttca	ttatcatgta	aatcgggtca	ctcaaggggc	caaccacagc	tgggagccac	60
tgctcagggg	aaggttcata	tgggactttc	tactgcccaa	ggttctatac	aggatataaa	120
ggngcctcac	agtatagatc	tggtagcaaa	gaagaagaaa	caaacactga	tctctttctg	180
ccaccctctc	gaccctttgg	aactcctctg	acccttttaga	acaagcctac	ctaatatctg	240
ctagagaaaa	gaccaacaac	ggcctcaaag	gatctcttac	catgaaggtc	tcagctaatt	300
cttgggctaag	atgtgggttc	cacattaggt	tctgaatatg	gggggaaggg	tcaatttgct	360
cattttgtgt	gtggataaag	tcaggatgcc	caggggccag	agcagggggc	tgcttgcttt	420
gggaacaatg	gctgagcata	taaccatagg	ttatggggaa	caaaacaaca	tcaaagtcac	480
tgatatcaatt	gccatgaaga	cttgagggac	ctgaatctac	cgattcatct	taaggcagca	540
ggaccagttt	gagtggcaac	aatgcagcag	cagaatcaat	ggaaacaaca	gaatgattgc	600
aatgtccttt	tttttctcct	gcttctgact	tgataaaagg	ggaccgt		647

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

actttatagt	ttaggctgga	cattggaaaa	aaaaaaaaagc	cagaacaaca	tgtgatagat	60
aatatgattg	gctgcacact	tccagactga	tgaatgatga	acgtgatgga	ctattgtatg	120
gagcacatct	tcagcaagag	ggggaaatac	tcatcatttt	tggccagcag	ttgtttgatc	180
accaaacatc	atgccagaat	actcagcaaa	ccttcttagc	tcttgagaag	tcaaagtccg	240
ggggaattta	ttcctggcaa	ttttaatttg	actccttatg	tgagagcagc	ggctacccag	300
ctgggggtggt	ggagcgaacc	cgtcactagt	ggacatgcag	tggcagagct	cctggtaacc	360
acctagagga	atacacaggc	acatgtgtga	tgccaagcgt	gacacctgta	gcactcaaat	420
ttgtcttggt	tttgtctttc	ggtgtgtaag	attcttaagt			460

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

<400> 310

acgggactta	tcaaataaag	ataggaaaag	aagaaaactc	aaatattata	ggcagaaatg	60
ctaaagggtt	taaaatatgt	caggattgga	agaaggcatg	gataaagaac	aaagttcagt	120
taggaaagag	aaacacagaa	ggaagagaca	caataaaagt	cattatgtat	tctgtgagaa	180
gtcagacagt	aagattttgt	ggaaatgggt	tggtttgttg	tatggtatgt	attttagcaa	240
taatctttat	ggcagagaaa	gctaaaatcc	tttagcttgc	gtgaatgatc	acttgctgaa	300
ttcctcaagg	taggcatgat	gaaggagggt	ttagaggaga	cacagacaca	atgaactgac	360
ctagatagaa	agccttagta	tactcagcta	ggaatagtga	ttctgagggc	acactgtgac	420
atgattatgt	cattacatgt	atggtagtga	tggggatgat	aggaaggaag	aacttatggc	480
atattttcac	ccccacaaaa	gtcagttaaa	tattgggaca	ctaaccatcc	aggtcaaga	539

<210> 311

<211> 526

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

&lt;222&gt; (1)...(526)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 311

caaatttgag	ccaatgacat	agaattttac	aatcaagaa	gcttattctg	gggccatttc	60
ttttgacgtt	ttctctaaac	tactaaagag	gcattaatga	tccataaatt	atattatcta	120
catttacagc	atttaaaatg	tggtcagcat	gaaatattag	ctacagggga	agctaaataa	180
attaaacatg	gaataaagat	ttgtccttaa	atataatcta	caagaagact	ttgatatttg	240
tttttcacaa	gtgaagcatt	cttataaagt	gtcataacct	ttttggggaa	actatgggaa	300
aaaatgggga	aactctgaag	ggttttaagt	atcttacctg	aagctacaga	ctccataacc	360
tctctttaca	gggagctcct	gcagccccta	cagaaatgag	tggctgagat	tcttgattgc	420
acagcaagag	cttctcatct	aaaccctttc	cctttttagt	atctgtgtat	caagtataaa	480
agttctataa	actgtagtnt	acttatttta	atccccaag	cacagt		526

&lt;210&gt; 312

&lt;211&gt; 500

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(500)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 312

cctctctctc	cccaccccct	gactotagag	aactggggtt	tctcccagta	ctccagcaat	60
tcatttctga	aagcagttga	gccactttat	tccaaagtac	actgcagatg	ttcaaactct	120
ccatttctct	ttcccttcca	cctgccagtt	ttgctgactc	tcaacttgtc	atgagtgtaa	180
gcattaagga	cattatgctt	cttcgattct	gaagacaggc	cctgctcatg	gatgactctg	240
gcttcttagg	aaaatatttt	tcttccaaaa	tcagtaggaa	atctaaactt	atccccctct	300
tgcatagtgc	tagcagcttc	agacatttgg	ttaagaacct	atgggaaaaa	aaaaaatcct	360
tgctaattgt	gtttcctttg	taaaccanga	ttcttatttg	nctggatatag	aatatcagct	420
ctgaacgtgt	ggtaaagatt	tttgtgtttg	aatataggag	aatcagttt	gctgaaaagt	480
tagtcttaat	tatctattgg					500

&lt;210&gt; 313

&lt;211&gt; 718

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(718)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 313

ggagatttgt	gtggtttgca	gccgaggag	accaggaaga	tctgcatggt	gggaaggacc	60
tgatgataca	gaggtgagaa	ataagaaagg	ctgctgactt	taccatctga	ggccacacat	120
ctgctgaaat	ggagataatt	aacatcacta	gaaacagcaa	gatgacaata	taatgtctaa	180
gtagtgacat	gtttttgcac	atttccagcc	cttttaata	tccacacaca	caggaagcac	240
aaaaggaagc	acagagatcc	ctgggagaaa	tgcccggccg	ccatcttggg	tcacgatga	300
gcctcgccct	gtgcctgntc	ccgcttgtga	gggaaggaca	ttagaaaatg	aattgatgtg	360
ttccttaaag	gatggcagga	aaacagatcc	tgttgtggat	atttatttga	acgggattac	420
agatttgaaa	tgaagtcaca	aagtgagcat	taccaatgag	aggaaaacag	acgagaaaat	480
cttgatggtt	cacaagacat	gcaacaaaca	aaatggaata	ctgtgatgac	acgagcagcc	540
aactggggag	gagataccac	ggggcagagg	tcaggattct	ggccctgctg	cctaactgtg	600
cgttatacca	atcatttcta	tttctaccct	caaacaagct	gtngaatatc	tgacttacgg	660
ttcttntggc	ccacattttc	atnatccacc	ccntcntttt	aannttantc	caaatgt	718

<210> 314  
 <211> 358  
 <212> DNA  
 <213> Homo sapien

<400> 314  
 gtttatttac attacagaaa aaacatcaag acaatgtata ctatttcaaa tatatccata 60  
 cataatcaaa tatagctgta gtacatgttt tcattgggtg agattaccac aaatgcaagg 120  
 caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg tgtagtccaa 180  
 gctctcggta gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240  
 ttgttgattt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300  
 tctggggcat ttccttgta tgcagaggac caccacacag atgacagcaa tctgaatt 358

<210> 315  
 <211> 341  
 <212> DNA  
 <213> Homo sapien

<400> 315  
 taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60  
 atagggtgatg atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120  
 gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag ccccaatgac 180  
 agtcaccagc tccccgacca gccggatata gtccttaggg gtcattgtagg ctctctgaag 240  
 tagcttctgc tgtaagaggg tgttgtcccg ggggctcgtg cggttattgg tctgggctt 300  
 gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

<210> 316  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 316  
 agactgggca agactcttac gcccacact gcaatttggc cttgttgccg tatccattta 60  
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcagatgtg tgactggact 120  
 cattcaggga gctctggttg caatattagt t 151

<210> 317  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 317  
 agaactagtg gatcctaagt aaatacctga aacatatatt ggcatttatc aatggctcaa 60  
 atcttcattt atctctggcc ttaacctggt ctccctgagc tgcggccagc agatcccagg 120  
 ccagggctct gttcttgcca cacctgcttg a 151

<210> 318  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 318  
 actggtggga ggcgctgttt agttggctgt ttccagaggg gtctttcgga gggacctcct 60  
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120  
 tgggggctgt ttatcaggca gtgataaaca t 151

<210> 319



<211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 319  
 aactagtgga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60  
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120  
 taagattggg tttatgtgat tttagtgggt a 151

<210> 320  
 <211> 150  
 <212> DNA  
 <213> Homo sapien

<400> 320  
 aactagtgga tccactagtc cagtgtgggtg gaattccatt gtgttggggt tctagatcgc 60  
 gagcggtgc cttttttttt tttttttttg ggggggaatt tttttttttt aatagttatt 120  
 gagtgttcta cagcttacag taaataccat 150

<210> 321  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<400> 321  
 agcaactttg tttttcatcc aggttatattt aggcttagga tttcctctca cactgcagtt 60  
 taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120  
 tgctctgag aaatcaaagt cttcatacac t 151

<210> 322  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(151)  
 <223> n = A,T,C or G

<400> 322  
 atccagcatc ttctctggtt tcttgccctc ctttttcttc ttcttasatt ctgcttgagg 60  
 tttgggcttg gtcagtttgc cacagggctt ggagatgggt acagtcttct ggcattcggc 120  
 attgtgcagg gctcgcttca nacttcacgt t 151

<210> 323  
 <211> 151  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(151)  
 <223> n = A,T,C or G

<400> 323  
 tgaggacttg tktttttttt cttttttttt aatcctctta ckttgtaaatt atattgccta 60  
 nagactcant tactaccag tttgtgggtt twtgggagaa atgtaactgg acagttagct 120  
 gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(461)  
 <223> n = A,T,C or G

<400> 324  
 acctgtgtgg aatttcagct ttcctcatgc aaaaggattt tgtatcccg gcctacttga 60  
 agaagtggc agctaaagga atccagggtg ttggttgac tgtaataacc tttgatgaaa 120  
 agagttacta cgaatcccat ctgtgttcca gctatatcac tgacagcatg gtagaagact 180  
 gcgaacctca cttctagact ttcacggtgg gacgaaacgg gttcagaaac tgccaggggc 240  
 ctcatacagg gatatacaaaa taccctttgt gctaccagc ccctggggaa tcagggtgact 300  
 cacacaaatg caatagtgtg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360  
 gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420  
 aaaaacgcac aagagccct gccctgccct agctgangca c 461

<210> 325  
 <211> 400  
 <212> DNA  
 <213> Homo sapien

<400> 325  
 acactgtttc catgttatgt ttctacacat tgctacctca gtgctcctgg aaacttagct 60  
 tttgatgtct ccaagtagtc caccttcatt taactctttg aaactgtatc atctttgcca 120  
 agtaagagtg gtggcctatt tcagctgctt tgacaaaatg actggctcct gacttaacgt 180  
 tctataaatg aatgtgctga agcaaagtgc ccattggtggc ggcgaagaag agaaagatgt 240  
 gttttgtttt ggactctctg tggcccttc caatgctgtg ggtttccaac caggggaagg 300  
 gtcccttttg cattgccaaag tgccataacc atgagcacta cgctaccatg gttctgcctc 360  
 ctggccaagc aggtctggtt gcaagaatga aatgaatgat 400

<210> 326  
 <211> 1215  
 <212> DNA  
 <213> Homo sapien

<400> 326  
 ggaggactgc agcccgact cgcagccctg gcaggcggca ctggtcatgg aaaacgaatt 60  
 gttctgctcg ggcgtcctgg tgcatecgca gtgggtgctg tcagccgcac actgtttcca 120  
 gaactcctac accatcgggc tgggcctgca cagtcttgag gccgaccaag agccaggag 180  
 ccagatggtg gaggccagcc tctccgtacg gcacccagag tacaacagac ccttgctcgc 240  
 taacgacctc atgctcatca agttggacga atccgtgtcc gactctgaca ccacccggag 300  
 catcagcatt gcttcgcagt gccctaccgc ggtgcagtgc tgcaactct tgcctcgttt ctggctgggg 360  
 tctgctggcg aacggcagaa tgccctaccg gctgcagtgc gtgaacgtgt cggtggtgtc 420  
 tgaggaggtc tgcagtaagc tctatgacct gctgtaccac ccagcatgt tctgcgccg 480  
 cggagggcaa gaccagaagg actcctgcaa cggtgactct ggggggcccc tgatctgcaa 540  
 cgggtacttg cagggccttg tgtctttcgg aaaagccccg tgtggccaag ttggcgtgcc 600  
 aggtgtctac accaacctct gcaaatcac tgagtggata gagaaaaccg tccaggccag 660  
 ttaactctgg ggactgggaa cccatgaaat tgacccccaa atacatcctg cggaaggaa 720  
 tcaggaatat ctgttccag cccctcctcc ctcaggccca ggagtccagg cccccagccc 780  
 ctctcctcctc aaaccaaggg tacagatccc cagccctcc tccctcagac ccaggagtcc 840  
 agacccccca gccctcctc cctcagaccc aggagtccag cccctcctcc ctcagaccca 900  
 ggagtccaga cccccagcc cctcctcctc cagacccagg ggtccaggcc cccaaccct 960  
 cctcctcag actcagaggt ccaagcccc aacccctcct tccccagacc cagaggtcca 1020

```

ggccccagcc cctcctccct cagacccagc ggtccaatgc cacctagact ctccctgtac 1080
acagtgcgcc cttgtggcac gttgacccaa ccttaccagt tggtttttca ttttttgtcc 1140
ctttccccta gatccagaaa taaagtctaa gagaagcgca aaaaaaaaaa aaaaaaaaaa 1200
aaaaaaaaaa aaaaaa 1215

```

```

<210> 327
<211> 220
<212> PRT
<213> Homo sapien

```

```

<400> 327
Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met
1      5      10      15
Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
20     25     30
Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly
35     40     45
Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu
50     55     60
Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala
65     70     75     80
Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
85     90     95
Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn
100    105    110
Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro
115    120    125
Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys
130    135    140
Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly
145    150    155    160
Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
165    170    175
Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
180    185    190
Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys
195    200    205
Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
210    215    220

```

```

<210> 328
<211> 234
<212> DNA
<213> Homo sapien

```

```

<400> 328
cgctcgtctc tggtagctgc agccaaatca taaacggcga ggactgcagc ccgcactcgc 60
agccctggca ggcggcactg gtcattgaaa acgaattgtt ctgctcgggc gtcctgggtgc 120
atccgcagtg ggtgctgtca gccacacact gtttcagaa ctctacacc atcgggctgg 180
gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag gcc 234

```

```

<210> 329
<211> 77
<212> PRT
<213> Homo sapien

```

```

<400> 329
Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser

```

1	5	10	15
Pro His Ser Gln	Pro Trp Gln Ala	Ala Leu Val Met Glu	Asn Glu Leu
	20	25	30
Phe Cys Ser Gly	Val Leu Val His	Pro Gln Trp Val	Leu Ser Ala Thr
	35	40	45
His Cys Phe Gln	Asn Ser Tyr Thr	Ile Gly Leu Gly	Leu His Ser Leu
	50	55	60
Glu Ala Asp Gln	Glu Pro Gly Ser	Gln Met Val Glu	Ala
65	70	75	

<210> 330  
 <211> 70  
 <212> DNA  
 <213> Homo sapien

<400> 330  
 cccaacacaa tggcccgatc ccatccctga ctccgccctc aggatcgctc gtctctggta 60  
 gctgcagcca 70

<210> 331  
 <211> 22  
 <212> PRT  
 <213> Homo sapien

<400> 331  
 Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu  
 1 5 10 15  
 Val Ser Gly Ser Cys Ser  
 20

<210> 332  
 <211> 2507  
 <212> DNA  
 <213> Homo sapien

<400> 332  
 tgggtgcgct gcagccggca gagatggttg agctcatggt cccgctgttg ctccctcctc 60  
 tgcccttcct tctgtatatg gctgcgcccc aaatcaggaa aatgctgtcc agtgggggtg 120  
 gtacatcaac tgttcagctt cctgggaaag tagttgtggt cacaggagct aatacaggta 180  
 tcgggaaggga gacagccaaa gagctggctc agagaggagc tcgagtatat ttagcttgcc 240  
 gggatgtgga aaagggggaa ttggtggcca aagagatcca gaccacgaca gggaaccagc 300  
 aggtgttggt gcggaaactg gacctgtctg atactaagtc tattcgagct ttgtctaagg 360  
 gcttcttagc tgaggaaaag cacctccacg ttttgatcaa caatgcagga gtgatgatgt 420  
 gtccgtactc gaagacagca gatggctttg agatgcacat aggagtcaac cacttgggtc 480  
 acttcctcct aacccatctg ctgctagaga aactaaagga atcagcccca tcaaggatag 540  
 taaatgtgtc ttccctcgca catcacctgg gaaggatcca ctcccataac ctgcaggggc 600  
 agaaaattcta caatgcaggc ctggcctact gtcacagcaa gctagccaac atcctcttca 660  
 cccaggaaact ggcccgagga ctaaaaggct ctggcggttac gacgtattct gtacaccctg 720  
 gcacagtcca atctgaactg gttcggcact catctttcat gagatggatg tgggtggctt 780  
 tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac tgtgccttaa 840  
 cagaaggtct tgagattcta agtgggaatc atttcagtga ctgtcatgtg gcatgggtct 900  
 ctgccaagc tcgtaatgag actatagcaa ggcggtctgt ggacgtcagt tgtgacctgc 960  
 tgggcctccc aatagactaa caggcagtgc cagttggacc caagagaaga ctgcagcaga 1020  
 ctacacagta cttcttgtca aaatgattct ccttcaaggt tttcaaaacc tttagcacia 1080  
 agagagcaaa acctccagc cttgcctgct tgggtgtccag ttaaaactca gtgtactgcc 1140  
 agattcgtct aaatgtctgt catgtccaga tttactttgc ttctgttact gccagagtta 1200  
 ctagagatat cataatagga taagaagacc ctcatatgac ctgcacagct cattttcctt 1260  
 ctgaaagaaa ctactaccta ggagaatcta agctatagca ggatgattt atgcaaattt 1320

gaactagctt	ctttgttcac	aattcagttc	ctcccaacca	accagtcttc	acttcaagag	1380
ggccacactg	caacctcagc	ttaacatgaa	taacaaagac	tggctcagga	gcagggcttg	1440
cccaggcatg	gtggatcacc	ggaggtcagt	agttcaagac	cagcctggcc	aacatggtga	1500
aacccacact	ctactaaaaa	ttgtgtatat	ctttgtgtgt	cttcctgttt	atgtgtgccca	1560
agggagtatt	ttcacaaagt	tcaaaacagc	cacaataatc	agagatggag	caaaccagtg	1620
ccatccagtc	tttatgcaaa	tgaaatgctg	caaagggaa	cagattctgt	atatgttggt	1680
aactaccac	caagagcaca	tgggtagcag	ggaagaagta	aaaaaagaga	aggagaatac	1740
tggaagataa	tgacaaaaat	gaagggacta	gttaaggatt	aactagccct	ttaaggatta	1800
actagttaag	gattaatagc	aaaagayatt	aaatatgcta	acatagctat	ggaggaattg	1860
agggcaagca	cccaggactg	atgaggtctt	aacaaaaacc	agtgtggcaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaatccta	aaaacaaaca	aacaaaaaaa	acaattcttc	attcagaaaa	1980
attatcttag	ggactgatat	tggttaattat	ggtcaattta	ataatatttt	ggggcatttc	2040
cttacattgt	cttgacaaga	ttaaaatgtc	tgtgccaaaa	ttttgtattt	tatttgagaga	2100
cttcttatca	aaagtaatgc	tgccaaagga	agtctaagga	attagtagtg	ttcccatcac	2160
ttgtttggag	tgtgctattc	taaaagattt	tgatttcctg	gaatgacaat	tatatatttaa	2220
cttttggtggg	ggaaagagtt	ataggaccac	agtcctcact	tctgatactt	gtaaaattaat	2280
cttttattgc	acttgttttg	accatttaagc	tatatgttta	gaaatgggtca	ttttacggaa	2340
aaattagaaa	aattctgata	atagtgcaga	ataaatgaat	taatgtttta	cttaattttat	2400
attgaactgt	caatgacaaa	taaaaattct	ttttgattat	tttttgtttt	catttaccag	2460
aataaaaaacg	taagaattaa	aagtttgatt	acaaaaaaa	aaaaaaa		2507

&lt;210&gt; 333

&lt;211&gt; 3030

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 333

gcaggcgact	tgcgagctgg	gagcgattta	aaacgctttg	gattcccccg	gcctgggtgg	60
ggagagcgag	ctgggtgccc	cctagattcc	ccgccccgc	acctcatgag	ccgaccctcg	120
gctccatgga	gcccggcaat	tatgccacct	tggatggagc	caaggatata	gaaggcttgc	180
tgggagcggg	agggggggcg	aatctggtcg	ccactcccc	tctgaccage	caccagcggg	240
cgcctacgct	gatgcctgct	gtcaactatg	cccccttggg	tctgccaggc	tcggcggagc	300
cgccaaagca	atgccaccca	tgccctgggg	tgccccaggg	gacgtcccca	gctcccgtgc	360
cttatggtta	ctttggaggc	gggtactact	cctgccgagt	gtccccgagc	tcgctgaaac	420
cctgtgccca	ggcagccacc	ctggccgcgt	acccccgagg	gactcccacg	gccgggggag	480
agtacccacg	ycgccccact	gagtttgctt	tctatccggg	atatccggga	acctaccagc	540
ctatggccag	ttacctggac	gtgtctgtgg	tgcaactctt	gggtgctcct	ggagaaccgc	600
gacatgactc	cctggttgctt	gtggacagtt	accagtcttg	ggctctcgct	ggtggctgga	660
acagccagat	gtgttgccag	ggagaacaga	accaccagg	tccttttttg	aaggcagcat	720
ttgcagactc	cagcggggcag	cacctctctg	acgcctgcgc	ctttcgtcgc	ggccgcaaga	780
aacgcattcc	gtacagcaag	gggcagttgc	gggagctgga	gcgggagtat	gcggctaaca	840
agttcatcac	caaggacaag	aggcgcaaga	tctcggcagc	caccagcctc	tcggagcgcc	900
agattaccat	ctggtttcag	aaccgcccgg	tcaaagagaa	gaaggttctc	gccaaagtga	960
agaacagcgc	taccccttaa	gagatctcct	tgccctgggtg	ggaggagcga	aagtgggggt	1020
gtcctgggga	gaccaggaac	ctgccaaagg	caggctgggg	ccaaggactc	tgctgagagg	1080
cccttagaga	caacacctt	cccaggccac	tggctgctgg	actgttctct	aggagcggcc	1140
tgggtaccca	gtatgtgcag	ggagacggaa	ccccatgtga	cagcccactc	caccagggtt	1200
cccaaaagaa	ctggccccagt	cataatcatt	cactcgtaca	gtggcaataa	tcacgataac	1260
cagtactagc	tgccatgata	gttagcctca	tattttctat	ctagagctct	gtagagcaact	1320
ttagaaaccg	ctttcatgaa	ttgagctaata	tatgaataaa	tttggaaggc	gatccctttg	1380
cagggaagct	ttctctcaga	cccccttcca	ttacacctct	caccttggtg	acagcaggaa	1440
gactgaggag	aggggaacgg	gcagattcgt	tgtgtggctg	tgatgtccgt	ttagcatttt	1500
tctcagctga	cagctgggta	ggtggacaat	tgtagaggct	gtctcttcct	ccctccttgt	1560
ccaccccata	gggtgtaccc	actggtcttg	gaagcaccga	tccttaatac	gatgattttt	1620
ctgtcgtgtg	aaaatgaagc	cagcaggtcg	cccctagtca	gtccttcctt	ccagagaaaa	1680
agagatttga	gaaagtgcct	gggttaattca	ccattaattt	cctcccccaa	actctctgag	1740
tcttccctta	atattttctg	tggttctgac	caagcagggt	catgggtttg	tgagcatttg	1800
ggatcccagt	gaagtagatg	ttttagtcct	tgcatactta	gcccttccca	ggcacaaacg	1860

gagtggcaga	gtggtgccaa	ccctgttttc	ccagtccacg	tagacagatt	cacagtgcgg	1920
aattctggaa	gctggagaca	gacgggctct	ttgcagagcc	gggactctga	gagggacatg	1980
agggcctctg	cctctgtgtt	cattctctga	tgtcctgtac	ctgggctcag	tgcccgggtg	2040
gactcatctc	ctggccgcgc	agcaaagcca	gcggttctgt	gctgggtcctt	cctgcacctt	2100
aggctggggg	tggggggcct	gccggcgcat	tctccacgat	tgagcgcaca	ggcctgaagt	2160
ctggacaacc	cgcagaaccg	aagctccgag	cagcgggtcg	gtggcgagta	gtggggctcg	2220
tggcgagcag	ttggtggtgg	gccggcgccg	ccactacctc	gaggacattt	ccctcccggg	2280
gccagctctc	ctagaaaccc	cgcggcgccg	gccgcagcca	agtgtttatg	gcccgcggtc	2340
gggtggggtc	ctagccctgt	ctcctctcct	gggaaggagt	gaggggtggg	cgtgacttag	2400
acacctacaa	atctatttac	caaagaggag	cccgggactg	agggaaaagg	ccaaagagtg	2460
tgagtgcag	cggactgggg	gttcaggggg	agaggacgag	gaggaggaag	atgaggctcg	2520
tttcttgatt	taaaaaatcg	tccaagcccc	gtggtccagc	ttaaggctct	cgtttacatg	2580
cgccgctcag	agcaggtcac	tttctgcctt	ccacgtctct	cttcaaggaa	gccccatgtg	2640
ggtagctttc	aatatcgcat	gttcttactc	ctctgcctct	ataagctcaa	acccaccaac	2700
gatcgggcaa	gtaaaccccc	tccctcgccg	acttcggaac	tggcgagagt	tcagcgcaga	2760
tgggcctgtg	gggagggggc	aagatagatg	agggggagcg	gcatgggtcg	gggtgacccc	2820
ttggagagag	gaaaaaggcc	acaagagggg	ctgccaccgc	cactaacgga	gatggccctg	2880
gtagagacct	ttgggggtct	ggaacctctg	gactcccat	gctctaactc	ccacactctg	2940
ctatcagaaa	cttaaaacttg	aggattttct	ctgtttttca	ctcgcaataa	aytcagagca	3000
aacaaaaaaa	aaaaaaaaaa	aaaactcgag				3030

&lt;210&gt; 334

&lt;211&gt; 2417

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 334

ggcgccgct	ctagagctag	tgggatcccc	cggtctgcac	gaattcggca	cgagtgaagt	60
ggagttttac	ctgtattgtt	ttaatttcaa	caagcctgag	gactagccac	aaatgtaccc	120
agtttacaaa	tgaggaaaca	ggtgcaaaaa	ggtgtgtacc	tgtcaaaggt	cgtatgtggc	180
agagccaaga	tttgagccca	gttatgtctg	atgaacttag	cctatgctct	ttaaacttct	240
gaatgctgac	cattgaggat	atctaaactt	agatcaattg	cattttccct	ccaagactat	300
ttacttatca	atacaataat	accaccttta	ccaatctatt	gttttgatac	gagactcaaa	360
tatgccagat	atatgtaaaa	gcaacctaca	agctctctaa	tcattgctcac	ctaaaagatt	420
cccgggatct	aataggctca	aagaaacttc	ttctagaaat	ataaaagaga	aaattggatt	480
atgcaaaaat	tcattattaa	tttttttcat	ccatccttta	attcagcaaa	catttatctg	540
ttgttgactt	tatgcagtat	ggccttttaa	ggattggggg	acaggtgaag	aacgggggtg	600
cagaatgcat	cctcctacta	atgaggctag	tacacatttg	cattttaaaa	tgccctgtcc	660
agctgggcat	ggtggatcat	gcctgtaatc	tcaacatttg	aaggccaagg	caggaggatt	720
gcttcagccc	aggagttcaa	gaccagcctg	ggcaacatag	aaagacccca	tctctcaatc	780
aatcaatcaa	tgccctgtct	ttgaaaataa	aactctttaa	gaaaggttta	atgggcaggg	840
tgtggtagct	catgcctata	atacagcact	ttgggaggct	gaggcaggag	gatcacttta	900
gccagaagt	tcaagaccag	cctgggcaac	aagtgcaccc	tcattctcaat	tttttaataa	960
aatgaataca	tacataagga	aagataaaaa	gaaaagttta	atgaaagaat	acagtataaa	1020
acaaatctct	tggacctaaa	agtatttttg	ttcaagccaa	atattgtgaa	tcacctctct	1080
gtgttgagga	tacagaatat	ctaagcccag	gaaactgagc	agaaaagttca	tgtactaact	1140
aatcaaccgg	aggcaaggca	aaaatgagac	taactaatca	atccgaggca	aggggcaaat	1200
tagacggaac	ctgactctgg	tctatttaagc	gacaactttc	cctctgttgt	atttttcttt	1260
tattcaatgt	aaaaggataa	aaactctcta	aaactaaaaa	caatgtttgt	caggagttac	1320
aaacctgac	caactaatta	tggggaatca	taaaatatga	ctgtatgaga	tcttgatggg	1380
ttacaaagtg	tacccactgt	taatcacttt	aaacattaat	gaacttaaaa	atgaatttac	1440
ggagattgga	atgtttcttt	cctgttgtat	tagttggctc	aggctgcat	aacaaaatac	1500
cacagactgg	gaggcttaag	taacagaaat	tcatctctca	cagttctggg	ggctggaagt	1560
ccacgatcaa	ggtgcaggaa	aggcaggctt	cattctgagg	cccctctctt	ggctcacatg	1620
tggccaccct	cccactgcgt	gtccacatga	cctctttgtg	ctcctggaaa	gaggggtgtg	1680
gggagagagg	gaaagagaag	gagagggaac	tctctggtgt	ctcgtctttc	aaggacccta	1740
acctggggcca	ctttggccca	ggcactgtgg	ggtggggggg	tgtggctgct	ctgctctgag	1800
tggccaagat	aaagcaacag	aaaaatgtcc	aaagctgtgc	agcaaaagaca	agccaccgaa	1860

cagggatctg	ctcatcagt	tggggacctc	caagtcggcc	accctggagg	caagccccc	1920
cagagcccat	gcaaggtggc	agcagcagaa	gaagggaatt	gtccctgtcc	ttggcacatt	1980
cctcaccgac	ctggtgatgc	tggacactgc	gatgaatgg	aatgtggatg	agaatatgat	2040
ggactoccag	aaaaggagac	ccagctgctc	aggtggctgc	aatcattac	agccttcac	2100
ctggggagga	actggggggc	tggttctggg	tcagagagca	gccagtgag	ggtgagagct	2160
acagcctgtc	ctgccagctg	gatccccagt	cccggccaac	cagtaatcaa	ggctgagcag	2220
atcaggcttc	ccggagctgg	tcttgggaag	ccagccctgg	ggtgagttgg	ctcctgctgt	2280
ggtactgaga	caatatgtgc	ataaattcaa	tgcgcccttg	tatccctttt	tcttttttat	2340
ctgtctacat	ctataatcac	tatgcatact	agtctttgtt	agtgtttcta	ttcmacttaa	2400
tagagatatg	ttatact					2417

&lt;210&gt; 335

&lt;211&gt; 2984

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 335

atccctcctt	ccccactctc	ctttccagaa	ggcacttggg	gtcttatctg	ttggactctg	60
aaaacacttc	aggcgccctt	ccaaggcttc	cccaaacc	taagcagccg	cagaagcgt	120
cccgagctgc	cttctccac	actcaggtga	tcgagttgga	gaggaagttc	agccatcaga	180
agtacctgtc	ggccccgaa	cgggccacc	tggccaagaa	cctcaagctc	acggagaccc	240
aagtgaagat	atggttccag	aacagacgt	ataagactaa	gcgaaagcag	ctctcctcgg	300
agctgggaga	cttgagagaag	cactcctctt	tgccggccct	gaaagaggag	gccttctccc	360
gggcctccct	ggtctccgtg	tataacagct	atccttacta	ccataacctg	tactgcgtgg	420
gcagctggag	ccagctttt	tggtaatgcc	agctcaggtg	acaaccatta	tgatcaaaaa	480
ctgccttccc	cagggtgtct	ctatgaaaag	cacaaggggc	caaggtcagg	gagcaagagg	540
tgtgcacacc	aaagctattg	gagatttgcg	tggaaatctc	asattcttca	ctggtgagac	600
aatgaaacaa	cagagacagt	gaaagtttta	atacctaagt	cattcccca	gtgcatactg	660
taggtcattt	tttttgcttc	tggctacctg	tttgaagggg	agagagggaa	aatcaagtgg	720
tattttccag	cactttgtat	gattttggat	gagctgtaca	cccaaggatt	ctgttctgca	780
actccatcct	cctgtgtcac	tgaatatcaa	ctctgaaaga	gcaaacctaa	caggagaaaag	840
gacaaccagg	atgaggatgt	caccaactga	attaaactta	agtcagaaag	cctcctgttg	900
gccttggaat	atggccaagg	ctctctctgt	ccctgtaaaa	gagaggggca	aatagagagt	960
ctccaagaga	acgccctcat	gctcagcaca	tatttgcattg	ggagggggag	atgggtggga	1020
ggagatgaaa	atatcagctt	ttcttattcc	tttttattcc	ttttaaaatg	gtatgccaac	1080
ttaagtattt	acaggggtgg	ccaaatagaa	caagatgcac	tcgctgtgat	tttaagacaa	1140
gctgtataaa	cagaactcca	ctgcaagagg	ggggccggg	ccaggagaat	ctccgcttgt	1200
ccaagacagg	ggcctaagga	gggtctccac	actgctgcta	ggggctgttg	cattttttta	1260
ttagtagaaa	gtggaaaggc	ctcttctcaa	cttttttccc	ttgggctgga	gaatttagaa	1320
tcagaagttt	cctggagttt	tcaggctatc	atatatactg	tatcctgaaa	ggcaacataa	1380
ttcttccttc	cctcctttta	aaattttgtg	ttcctttttg	cagcaattac	tcactaaaag	1440
gcttcatttt	agtccagatt	tttagtctgg	ctgcacctaa	cttatgcctc	gcttatttag	1500
cccgagatct	ggtctttttt	ttttttttt	tttttccgtc	tccccaaagc	tttatctgtc	1560
ttgacttttt	aaaaaagttt	gggggcagat	tctgaattgg	ctaaaagaca	tgcattttta	1620
aaactagcaa	ctcttatttc	tttcctttta	aaatacatag	cattaaatcc	caaatcctat	1680
ttaaagacct	gacagcttga	gaaggtcact	actgcattta	taggaccttc	tgggtggtct	1740
gctgttacgt	ttgaagtctg	acaatccttg	agaatccttg	catgcagagg	aggtaagagg	1800
tattggattt	tcacagagga	agaacacagc	gcagaatgaa	gggccaggct	tactgagctg	1860
tcagtgagg	ggctcatggg	tgggacatgg	aaaagaaggc	agcctaggcc	ctggggagcc	1920
cagtccactg	agcaagcaag	ggactgagtg	agccttttgc	aggaaaaggc	taagaaaaag	1980
gaaaaccatt	ctaaaacaca	acaagaaact	gtccaaatgc	tttgggaact	gtgtttattg	2040
cctataatgg	gtccccaaaa	tgggtaacct	agacttcaga	gagaatgagc	agagagcaaa	2100
ggagaaatct	ggctgtcctt	ccattttcat	tctgttatct	caggtgagct	ggtagagggg	2160
agacattaga	aaaaaatgaa	acaacaaaac	aattactaat	gaggtacgct	gaggcctggg	2220
agtcctctga	ctccactact	taattccgtt	tagtgagaaa	cctttcaatt	ttcttttatt	2280
agaagggcca	gcttactgtt	ggtggcaaaa	ttgccaacat	aagttaatag	aaagttggcc	2340
aatttcaccc	cattttctgt	ggtttgggct	ccacattgca	atgttcaatg	ccacgtgctg	2400
ctgacaccga	ccggagtact	agccagcaca	aaaggcaggg	tagcctgaat	tgctttctgc	2460

```

tctttacatt tcttttaaaa taagcattta gtgctcagtc cctactgagt actctttctc 2520
tccctcctc tgaatttaat tctttcaact tgcaatttgc aaggattaca catttcactg 2580
tgatgtatat tgtgttgcaa aaaaaaaaaa aagtgtcttt gtttaaaatt acttggtttg 2640
tgaatccatc ttgctttttc cccattggaa ctagtcatta acccatctct gaactggtag 2700
aaaaacatct gaagagctag tctatcagca tctgacaggt gaattggatg gttctcagaa 2760
ccatttcacc cagacagcct gtttctatcc tgtttaataa attagtttgg gttctctaca 2820
tgcataacaa accctgctcc aatctgtcac ataaaagtct gtgacttgaa gtttagtcag 2880
cacccccacc aaactttatt tttctatgtg ttttttgcaa catatgagtg ttttgaaaat 2940
aaagtaccca tgtctttatt agaaaaaaaa aaaaaaaaaa aaaa 2984

```

<210> 336  
 <211> 147  
 <212> PRT  
 <213> Homo sapien

<400> 336

```

Pro Ser Phe Pro Thr Leu Leu Ser Arg Arg His Leu Gly Ser Tyr Leu
1          5          10          15
Leu Asp Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr
20        25        30
Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
35        40        45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50        55        60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65        70        75        80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85        90        95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100       105       110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
115       120       125
Ser Tyr Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro
130       135       140
Ala Phe Trp
145

```

<210> 337  
 <211> 9  
 <212> PRT  
 <213> Homo sapien

<400> 337

```

Ala Leu Thr Gly Phe Thr Phe Ser Ala
1          5

```

<210> 338  
 <211> 9  
 <212> PRT  
 <213> Homo sapien

<400> 338

```

Leu Leu Ala Asn Asp Leu Met Leu Ile
1          5

```

<210> 339  
 <211> 318



&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 339

```

Met Val Glu Leu Met Phe Pro Leu Leu Leu Leu Leu Leu Pro Phe Leu
 1      5      10      15
Leu Tyr Met Ala Pro Gln Ile Arg Lys Met Leu Ser Ser Gly Val
 20      25      30
Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly
 35      40      45
Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 50      55      60
Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
 65      70      75      80
Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
 85      90      95
Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100     105     110
Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
 115     120     125
Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
 130     135     140
His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
 145     150     155     160
Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
 165     170     175
Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180     185     190
Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195     200     205
Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
 210     215     220
Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225     230     235     240
Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
 245     250     255
Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260     265     270
Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
 275     280     285
Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg
 290     295     300
Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp
 305     310     315

```

&lt;210&gt; 340

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 340

```

gccgaggtct gccttcacac ggaggacacg agactgcttc ctcaagggct cctgcctgcc      60
tggacactgg tgggaggcgc tgtttagtgt gctgttttca gaggggtctt tcggagggac      120
ctcctgctgc aggetggagt gtctttattc ctggcgggag accgcacatt ccaactgctga      180
ggttggtggg gcggtttatc aggcagtgat aaacataaga tgtcatttcc ttgactccgg      240
ccttcaattt tctctttggc tgacgacgga gtcctgtgtg tcccgatgta actgaccct      300
gctccaaacg tgacatcact gatgctcttc tcgggggtgc tgatggcccg cttggtcacg      360
tgctcaatct cgccattcga ctcttgctcc aaactgtatg aagacacctg actgcacgtt      420

```

ttttctgggc ttccagaatt taaagtgaag ggcagcactc ctaagctccg actccgatgc 480  
ctg 483

<210> 341  
<211> 344  
<212> DNA  
<213> Homo sapien

<400> 341  
ctgctgctga gtcacagatt tcattataaa tagcctccct aaggaaaata cactgaatgc 60  
tatttttact aaccattcta tttttataga aatagctgag agtttctaaa ccaactctct 120  
gctgccttac aagtattaaa tattttactt ctttccataa agagtagctc aaaatatgca 180  
attaatttaa taattttctga tgatggtttt atctgcagta atatgtatat catctattag 240  
aatttactta atgaaaaact gaagagaaca aaatttgtaa ccactagcac ttaagtactc 300  
ctgattctta acattgtctt taatgaccac aagacaacca acag 344

<210> 342  
<211> 592  
<212> DNA  
<213> Homo sapien

<400> 342  
acagcaaaaa agaaactgag aagcccaaty tgctttcttg ttaacatcca cttatccaac 60  
caatgtggaa acttcttata cttgggtcca ttatgaagtt ggacaattgc tgctatcaca 120  
cctggcaggt aaaccaatgc caagagagtg atggaaacca ttggcaagac tttgttgatg 180  
accaggattg gaattttata aaaatattgt tgatgggaag ttgctaaagg gtgaattact 240  
tcctcagaa gagtgtaaag aaaagtcaga gatgctataa tagcagctat ttttaattggc 300  
aagtgccact gtggaaagag ttctgtgttg tgctgaagtt ctgaagggca gtcaaattca 360  
tcagcatggg ctgtttggtg caaatgcaaa agcacaggtc tttttagcat gctgggtctc 420  
cccgtgtcct tatgcaaata atcgtcttct tctaaatttc tcctaggctt cattttccaa 480  
agttcttctt ggtttgtgat gtcttttctg ctttccatta attctataaa atagtatggc 540  
ttcagccacc cactcttcgc cttagcttga ccgtgagtct cggctgccgc tg 592

<210> 343  
<211> 382  
<212> DNA  
<213> Homo sapien

<400> 343  
ttcttgacct cctctcctt caagctcaaa caccacctcc cttattcagg accggcactt 60  
cttaatgttt gtggtttct ctccagcctc tcttaggagg ggtaatggtg gagttggcat 120  
cttgtaaact tcctttctcc tttcttcccc tttctctgcc cgcctttccc atcctgctgt 180  
agacttcttg attgtcagtc tgtgtcacat ccagtgattg ttttggttcc tgttcccttt 240  
ctgactgcc aaggggctca gaacccagc aatcccttcc tttcactacc ttcttttttg 300  
ggggtagttg gaagggactg aaattgtggg gggaaggtag gaggcacatc aataaagagg 360  
aaaccaccaa gctgaaaaaa aa 382

<210> 344  
<211> 536  
<212> DNA  
<213> Homo sapien

<400> 344  
ctgggcctga agctgtaggg taaatcagag gcaggcttct gagtgatgag agtcctgaga 60  
caataggcca cataaacttg gctggatgga acctcacaat aagggtggtc cctcttgttt 120  
gtttaggggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180  
agtctttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc 240  
caccttcatg tgctgaaatg gttgccaggc cagaaaaatc cacccttac gagtgcggct 300

```

tegaccctat atccccgcc cgcgccctt tctccataaa attcttctta gtagctatta 360
ccttcttatt atttgatcta gaaattgcc tccttttacc cctaccatga gccctacaaa 420
caactaacct gccactaata gttatgtcat ccctcttatt aatcatcatc ctagccctaa 480
gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa 536

```

```

<210> 345
<211> 251
<212> DNA
<213> Homo sapien

```

```

<400> 345
accttttgag gtctctctca ccacctcac agccaccgtc accgtgggat gtgctggatg 60
tgaatgaagc ccccatcttt gtgcctcctg aaaagagagt ggaagtgtcc gaggactttg 120
gcgtgggcca ggaaatcaca tcctacactg cccaggagcc agacacattt atggaacaga 180
aaataacata tcggatttgg agagacactg ccaactggct ggagattaat cgggacactg 240
gtgccatttc c 251

```

```

<210> 346
<211> 282
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (282)
<223> n = A,T,C or G

```

```

<400> 346
cgcgctctctg aactgtgat catgacaggg gttcaaacag aaagtgcctg ggccctcctt 60
ctaagtcttg ttaccaaaaa aaggaaaaag aaaagatctt ctcaattaca aattctggga 120
agggagacta tacctggctc ttgccctaag tgagagggtc tcctcccgc accaaaaaat 180
agaaaggctt tctatttcac tggcccagggt agggggaagg agagtaactt tgagtctgtg 240
ggtctcattt cccaagggtc cttcaatgct catnaaaacc aa 282

```

```

<210> 347
<211> 201
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1) ... (201)
<223> n = A,T,C or G

```

```

<400> 347
acacacataa tattataaaa tgccatctaa ttggaaggag ctttctatca ttgcaagtca 60
taaataatac ttttaaaana ntactancag cttttaccta ngctcctaaa tgcttgtaaa 120
tctgagactg actggacca cccagacca gggcaaagat acatgttacc atatcatctt 180
tataaagaat tttttttgt c 201

```

```

<210> 348
<211> 251
<212> DNA
<213> Homo sapien

```

```

<400> 348
ctgttaatca caacatttgt gcatcacttg tgccaagtga gaaaatgttc taaaatcaca 60
agagagaaca gtgccagaat gaaactgacc ctaagtccca ggtgcccctg ggcaggcaga 120

```

aggagacact	cccagcatgg	aggagggttt	atcttttcat	cctaggtcag	gtctacaatg	180
ggggaagggt	ttattataga	actcccaaca	gccaccta	ctcctgccac	ccacccgatg	240
gccctgcctc	c					251

<210> 349  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

<400> 349						
taaaaatcaa	gccatttaaat	tgtatctttg	aaggtaaaca	atatatggga	gctggatcac	60
aaccctgag	gatgccagag	ctatgggtcc	agaacatgg	gtggtattat	caacagagtt	120
cagaagggtc	tgaactctac	gtgttaccag	agaacataat	gcaattcatg	cattccactt	180
agcaattttg	taaaataacca	gaaacagacc	ccaagagtct	ttcaagatga	ggaaaattca	240
actcctggtt	t					251

<210> 350  
 <211> 908  
 <212> DNA  
 <213> Homo sapien

<400> 350						
ctggacactt	tgcgagggtc	tttgcctggt	gctgctgctg	cccgtcatgc	tactcatcgt	60
agccgcgccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgactgcc	aaacgcccac	120
cggtctggaat	tgctctgggt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaa	180
cacctgtaaa	tttgcctggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgcctgt	gtgtgggtcc	aattggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tggtgtcaga	360
aggatcatgt	gccacagtcc	atgaaggctc	tggagaaact	agtcaaaagg	agacatccac	420
ctgtgatatt	tgccagtttg	gtgcagaatg	tgacgaagat	gccgaggatg	tctggtgtgt	480
gtgtaatat	gactgttctc	aaaccaactt	caatcccctc	tgcgcttctg	atgggaaatc	540
ttatgataat	gcatgccaat	tcaaagaagc	atcgtgtcag	aaacaggaga	aaattgaagt	600
catgtctttg	ggtcgatgtc	aagataaacac	aactacaact	actaagtctg	aagatgggca	660
ttatgcaaga	acagattatg	cagagaatgc	taacaaatta	gaagaaagtg	ccagagaaca	720
ccacatacct	tgctccgaac	attacaatgg	cttctgcatg	catgggaagt	gtgagcattc	780
tatcaatatg	caggagccat	cttgcagggt	tgatgctggg	tatactggac	aacactgtga	840
aaaaaaggac	tacagtgttc	tatacgttgt	tcccggctct	gtacgatttc	agtatgtctt	900
aatcgag						908

<210> 351  
 <211> 472  
 <212> DNA  
 <213> Homo sapien

<400> 351						
ccagttattt	gcaagtggta	agagcctatt	taccataaat	aataactaaga	accaactcaa	60
gtcaaaccct	aatgccattg	ttattgtgaa	ttaggattaa	gtagtaattt	tcaaaattca	120
cattaacttg	attttaaaat	cagwtttgyg	agtcatttac	cacaagctaa	atgtgtacac	180
tatgataaaa	acaaccattg	tattcctggt	tttctaaaca	gtcctaattt	ctaactactg	240
atatatcctt	cgacatcaat	gaactttggt	ttcttttact	ccagtaataa	agtaggcaca	300
gatctgtcca	caacaaactt	gccctctcat	gccttgctc	tcaccatgct	ctgctccagg	360
tcagccccct	tttggcctgt	ttgttttgtc	aaaaacctaa	tctgcttctt	gcttttcttg	420
gtaatatata	tttagggaag	atgttgcttt	gccacacac	gaagcaaagt	aa	472

<210> 352  
 <211> 251  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 352

ctcaaagcta atctctcggg aatcaaacca gaaaagggca aggatcttag gcatgggtgga	60
tgtggataag gccagggtcaa tggctgcaag catgcagaga aagaggtaca tgggagcgtg	120
caggctgcgt tccgtcctta cgatgaagac cacgatgcag tttccaaaca ttgccactac	180
atacatggaa aggaggggga agccaaccca gaaatgggct ttctctaate ctgggatacc	240
aataagcaca a	251

&lt;210&gt; 353

&lt;211&gt; 436

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 353

tttttttttt tttttttttt ttttttacia caatgcagtc atttatttat tgagtatgtg	60
cacattatgg tattattact atactgatta tatttatcat gtgacttcta attaraaaat	120
gtatccaaaa gcaaaacagc agatatacaa aattaaagag acagaagata gacattaaca	180
gataaggcaa cttatacatt gacaatccaa atccaataca tttaaacatt tgggaaatga	240
gggggacaaa tggaagccar atcaaatttg tgtaaaacta ttcaagtatgt ttcccttgct	300
tcatgtctga raaggctctc ccttcaatgg ggatgacaaa ctccaaatgc cacacaaatg	360
ttaacagaat actagattca cactggaacg ggggtaaaga agaaattatt ttctataaaa	420
gggctcctaa tgtagt	436

&lt;210&gt; 354

&lt;211&gt; 854

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 354

ccttttctag ttcaccagtt ttctgcaagg atgctgggta gggagtgtct gcaggaggag	60
caagtctgaa accaaatcta ggaaacatag gaaacgagcc aggcacaggg ctggtgggcc	120
atcaggggacc accctttggg ttgatatttt gcttaatctg catcttttga gtaagatcat	180
ctggcagtag aagctgttct ccaggtagcat ttctctagct catgtacaaa aacatcctga	240
aggactttgt cagggtgcctt gctaaaagcc agatgcgttc ggcacttctt tggctcagag	300
ttaattgcac acctacaggg actgggctca tgctttcaag tattttgtcc tcaactttagg	360
gtgagtgaat gatccccatt ataggagcac ttgggagaga tcatataaaa gctgactctt	420
gagtacatgc agtaatgggg tagatgtgtg tgggtgtgtc tcatcctgc aagggtgctt	480
gttagggagt gttccagga ggaacaagtc tgaaaccaat catgaaataa atggtagggtg	540
tgaactggaa aactaattca aaagagagat cgtgatata gtgtgggtga tacaccttgg	600
caatatggaa ggctctaatt tgcccatatt tgaaataata attcagcttt ttgtaataca	660
aaataacaaa ggattgagaa tcatgtgtgc taatgtataa aagaccaggg aaacataaat	720
atatcaactg cataaatgta aaatgcatgt gacccaagaa ggccccaaag tggcagacaa	780
cattgtaccc attttccctt ccaaaatgtg agcggcgggc ctgctgcttt caaggctgtc	840
acacgggatg tcag	854

&lt;210&gt; 355

&lt;211&gt; 676

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 355

gaaattaagt atgagctaaa ttccctgtta aaacctctag gggtgacaga tctcttcaac	60
cagggtcaaag ctgatctttc tggaatgtca ccaaccaagg gcctatatatt atcaaaagcc	120
atccacaagt catacctgga tgcagcgaa gagggcacgg aggcagcagc agccactggg	180
gacagcatcg ctgtaaaaaag cctaccaatg agagctcagt tcaaggcgaa ccaccccttc	240
ctgttcttta taaggcacac tcataccaac acgatcctat tctgtggcaa gcttgctct	300
ccctaatacag atgggggttg gtaagggtca gagttgcaga tgagggtgcag agacaatcct	360
gtgactttcc cacggccaaa aagctgttca cacctcacgc acctctgtgc ctcaagtttg	420

tcattctgcaa	aataggtcta	ggattttcttc	caaccatttc	atgagttgtg	aagctaaggc	480
tttgtttaatc	atggaaaaag	gtagacttat	gcagaaagcc	tttctggctt	tcttatctgt	540
ggtgtctcat	ttgagtgctg	tccagtgaca	tgatcaagtc	aatgagtaaa	attttaaggg	600
attagatttt	cttgacttgt	atgtatctgt	gagatcttga	ataagtgacc	tgacatctct	660
gcttaaagaa	aaccag					676

&lt;210&gt; 356

&lt;211&gt; 574

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 356

tttttttttt	tttttcagga	aaacattctc	ttactttatt	tgcattctcag	caaagggttct	60
catgtggcac	ctgactggca	tcaaaccaaa	gttcgtaggc	caacaaagat	gggccactca	120
caagcttccc	atttgtagat	ctcagtgcc	atgagtatct	gacacctgtt	cctctcttca	180
gtctcttagg	gaggcttaaa	tctgtctcag	gtgtgctaag	agtgccagcc	caaggkggtc	240
aaaagtccac	aaaactgcag	tctttgctgg	gatagtaagc	caagcagtgc	ctggacagca	300
gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca	360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acagggaagg	420
agatacaagc	tctgtttacat	gtgatagatc	taacaaaggc	atctaccgaa	gtctggtctg	480
gatagacggc	acagggagct	cttaggtcag	cgctgctggt	tggaggacat	tcctgagtcc	540
agctttgcag	cctttgtgca	acagtacttt	ccca			574

&lt;210&gt; 357

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 357

tttttttttt	tttttttttt	tttttttttt	tacagaatat	aratgcttta	tcactgkact	60
taatattgkg	kcttggtcac	tatacttaaa	aatgcaccac	tcataaatat	ttaattcagc	120
aagccacaac	caaracttga	ttttatcaac	aaaaaccctt	aaatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tgttatatgg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

&lt;210&gt; 358

&lt;211&gt; 630

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 358

acagggtaaa	caggaggatc	cttgctctca	cggagcttac	attctagcag	gaggacaata	60
ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagtg	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taagggaagt	180
gagtttaaac	tgagagaagc	aagtgcctaa	actgaaggat	gtgttggaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaaccttat	agaccctaag	gtgggaagg	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tcgggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tcactgaagg	gagtaatgtg	acattacttt	tcacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagttaa	aatcagtagg	acttaatgag	600
caagccagag	gttcctccac	aacaaccagt				630

&lt;210&gt; 359

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 359

acagcattcc	aaaatataca	tctagagact	aarrgtaa	gctctatagt	gaagaagtaa	60
taattaaaa	atgctactaa	tatagaaa	ttataatcag	aaaaataaat	attcagggag	120
ctcaccagaa	gaataaagtg	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaagggaaa	tagagagatt	cttctggatt	atgttcaata	tttatttcac	240
aggattaact	gttttaggaa	cagatataaa	gcttcgccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgatacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttggaagaa	360
tgcaacatta	tgcttcatga	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aactttataa	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcatataacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaaa	caaaaccatc	aacttatitt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

&lt;210&gt; 360

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 360

aaaaaaaa	agccagaaca	acatgtgata	gataatatga	ttggctgcac	acttccagac	60
tgatgaatga	tgaacgtgat	ggactattgt	atggagcaca	tcttcagcaa	gagggggaaa	120
tactcatcat	ttttggccag	cagttgtttg	atcaccaa	atcatgccag	aatactcagc	180
aaaccttctt	agctcttgag	aagtcaaagt	ccgggggaat	ttattcctgg	caattttaat	240
tggaactcctt	atgtgagagc	agcggtacc	cagctggggt	ggtggagcga	acccgtcact	300
agtggacatg	cagtggcaga	gctcctggta	accacctaga	ggaatacaca	ggcacatgtg	360
tgatgccaa	cgtagacacct	gtagcactca	aatttgtctt	gtttttgtct	ttcgggtgtgt	420
agattcttag	t					431

&lt;210&gt; 361

&lt;211&gt; 351

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 361

acactgattt	ccgatcaaaa	gaatcatcat	ctttaccttg	acttttcagg	gaattactga	60
actttcttct	cagaagatag	ggcacagcca	ttgccttggc	ctcacttgaa	gggtctgcac	120
ttgggtcctc	tggtctcttg	ccaagtcttc	cagccactcg	aggagaaat	atcgggaggt	180
ttgacttctc	ccggggcttt	cccaggggct	tcaccgtgag	ccctgcggcc	ctcagggctg	240
caatcctgga	ttcaatgtct	gaaacctcgc	tctctgcctg	ctggacttct	gaggccgtca	300
ctgccactct	gtcctccagc	tctgacagct	cctcatctgt	ggtcctgttg	t	351

&lt;210&gt; 362

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 362

acttcatcag	gccataatgg	gtgcctcccg	tgagaatcca	agcacctttg	gactgcgcga	60
tgtagatgag	ccggtgaag	atcttgcgca	tgcgcggctt	cagggcgaag	ttcttggcgc	120
ccccggtcac	agaaatgacc	aggttgggtg	ttttcaggtg	ccagtgtctg	gtcagcagct	180
cgtaaaggat	ttccgcgtcc	gtgtcgcagg	acagacgtat	atacttcctt	ttcttcccca	240
gtgtctcaaa	ctgaatatcc	ccaaaggcgt	cggtaggaaa	ttccttgggtg	tgtttcttgt	300
agttccattt	ctcactttgg	ttgatctggg	tgccttccat	gtgctggctc	tgggcatagc	360
cacacttgca	cacattctcc	ctgataagca	cgatggtgtg	gacaggaagg	aaggatttca	420
ttgagcctgc	ttatggaaac	tggtattgtt	agcttaata	gac		463

<210> 363  
 <211> 653  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(653)  
 <223> n = A,T,C or G

<400> 363  
 acccccgagt ncctgnctgg catactgnga acgaccaacg acacacccaa gtcgggctc 60  
 ctcttgngga ttctgggtga catcttcatg aatggcaacc gtgccagwga ggctgtcctc 120  
 tgggaggcac tacgcaagat gggactgcgt cctgggggtga gacatcctct ccttggagat 180  
 ctaacgaaac ttctcaccta tgagttgtaa agcagaaata cctgnactac agacgagtgc 240  
 ccaacagcaa ccccccgaa gtatgagttc ctctrgggcc tccgttccta ccatgagasc 300  
 tagcaagatg naagtgttga gantcattgc agaggttcag aaaagagacc cntcgtgact 360  
 ggtctgcaca gttcatggag gctgcagatg aggccttgga tgctctggat gctgctgcag 420  
 ctgaggccga agcccgggct gaagcaagaa cccgcattgg aattggagat gaggctgtgt 480  
 ntgggccctg gagctgggat gacattgagt ttgagctgct gacctgggat gaggaaggag 540  
 attttggaga tccntgggtcc agaattccat ttaccttctg ggccagatac caccagaatg 600  
 cccgctccag attccctcag acctttgccg gtcccattat tggtcstggt ggt 653

<210> 364  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<400> 364  
 actagaggaa agacgttaaa ccactctact accacttgtg gaactctcaa agggtaaattg 60  
 acaaagccaa tgaatgactc taaaaacaat atttacattt aatggtttgt agacaataaa 120  
 aaaacaaggt ggatagatct agaattgtaa cattttaaga aaaccatagc atttgacaga 180  
 tgagaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240  
 catttcacac ctttcatata aattcactat cttggcttga ggcactccat aaaatgtatc 300  
 acgtgcatag taaatcttta tatttgctat ggcgttgac tagaggactt ggactgcaac 360  
 aagtggatgc gcggaaaatg aaatcttctt caatagccca g 401

<210> 365  
 <211> 356  
 <212> DNA  
 <213> Homo sapien

<400> 365  
 ccagtgtcat atttgggctt aaaatttcaa gaagggcact tcaaattggct ttgcatttgc 60  
 atgtttcagt gctagagcgt aggaatagac cctggcgctcc actgtgagat gttcttcagc 120  
 taccagagca tcaagtctct gcagcaggtc attcttgggt aaagaaatga cttccacaaa 180  
 ctctccatcc cctggctttg gcttcggcct tgcgttttcg gcatcatctc cgttaattgg 240  
 gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300  
 acattcggca atgtcccctt tgtagccagt ttcttcttcg agctcccga gagcag 356

<210> 366  
 <211> 1851  
 <212> DNA  
 <213> Homo sapien

<400> 366  
 tcatcaccat tgcagcagc ggcaccgtta gtcaggtttt ctgggaatcc cacatgagta 60  
 cttcogtgtt cttcattctt cttcaatagc cataaatctt ctagctctgg ctggctgttt 120



tcacttcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgtttttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatata	tatccagcgc	atttaaatc	gcttttttct	420
tgattaaaaa	tttcaccact	tgctgttttt	gctcatgtat	accaagtagc	agtgggtgta	480
ggccatgctt	gttttttgat	tcgatatacag	caccgtataa	gagcagtgct	ttggccatta	540
atztatcttc	attgtagaca	gcatagtgtg	gagtgggtatt	tccataactca	tctggaatat	600
ttggatcagt	gccatgttcc	agcaacatta	acgcacattc	atcttctctg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	gcagtcctct	780
tttgcttgtc	cctcttggtc	acatccgtgt	ccctgagcat	gacgatgaga	tcctttctgg	840
ggactttacc	ccaccaggca	gctctgtgga	gcttgtccag	atcttctcca	tggacgtggg	900
acctgggac	catgaaggcg	ctgtcatcgt	agtctcccca	agcgaccaag	ttgctcttgc	960
cgtccctcg	cagcagggga	agcagtgcca	gcaccacttg	cacctcttgc	tcccaagcgt	1020
cttcacagag	gagtcgttgt	ggtctccaga	agtgtcccacg	ttgctcttgc	cgctcccct	1080
gtccatccag	ggaggaagaa	atgcaggaaa	tgaagatgc	atgcacgatg	gtatactcct	1140
cagccatcaa	acttctggac	agcaggtcac	ttccagcaag	gtggagaaag	ctgtccaccc	1200
acagaggatg	agatccagaa	accacaatat	ccattccaaa	acaaacactt	ttcagccaga	1260
cacaggtaact	gaaatcatgt	catctgcgcc	aacatgggtg	aacctaccca	atcacacatc	1320
aagagatgaa	gacactgcag	tatatctgca	caacgtaata	ctcttcatcc	ataacaaaat	1380
aataataatt	tcctctggag	ccatatggat	gaactatgaa	ggaagaactc	cccgaagaag	1440
ccagtcgcag	agaagccaca	ctgaagctct	gtcctcagcc	atcagcgcca	cggacaggag	1500
tgtgtttctt	ccccagtgat	gcagcctcaa	gttatcccga	agctgccgca	gcacacgggtg	1560
gctcctgaga	aacaccccag	ctcttccggt	ctaacacagg	caagtcaata	aatgtgataa	1620
tcacataaac	agaattaaaa	gcaaagtcac	ataagcatct	caacagacac	agaaaaggca	1680
tttgacaaaa	tccagcatcc	ttgtatttat	tgttgagttt	ctcagaggaa	atgcttctaa	1740
cttttcccca	tttagtatta	tgttggctgt	gggcttgtca	taggtgggtt	ttattacttt	1800
aaggtatgtc	ccttctatgc	ctgttttgct	gaggggttta	attctcgtgc	c	1851

&lt;210&gt; 367

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 367

cttgagcttc	caaataygga	agactggccc	ttacacasgt	caatgttaaa	atgaatgcat	60
ttcagtattt	tgaagataaa	attrgtagat	ctataccttg	ttttttgatt	cgatatcagc	120
accrtataag	agcagtgctt	tggccattaa	tttatctttc	attrtagaca	gcrtagtgya	180
gagtgggtatt	tccataactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240
acgcacattc	atcttctctg	cattgtacgg	cctgtcagta	ttagacccaa	aaacaaatta	300
catatcttag	gaattcaaaa	taacattcca	cagctttcac	caactagtta	tattttaaagg	360
agaaaactca	tttttatgcc	atgtattgaa	atcaaaccce	cctcatgctg	atatagtttg	420
ctactgcata	cctttatcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	480
cgtctgtcca	gcaggagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	540
gcagtcctat	gagagtgaga	agacttttta	ggaaattgta	gtgcaactagc	tacagccata	600
gcaatgattc	atgtaactgc	aaacactgaa	tagcctgcta	ttactctgcc	ttcaaaaaaa	660
aaaaaaaa						668

&lt;210&gt; 368

&lt;211&gt; 1512

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 368

gggtcgccca	gggggsgcgt	gggctttcct	cggggtgggtg	tgggttttcc	ctgggtgggg	60
tgggctgggc	trgaatcccc	tgctgggggt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggg	gaaactgggt	ggtagacgcg	180

atctgttggc	tactactggc	ttctcctggc	tgttaaaagc	agatggtggt	tgaggttgat	240
tccatgccgg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtgggtgctg	ccactgcttc	540
ccctgctgca	gggggagcrg	caagagcaag	gtgggcgctt	ggggagacta	cgatgacagt	600
gccttcatgg	agcccaggta	ccacgtccgt	ggagaagatc	tggacaagct	ccacagagct	660
gcctggtggg	gtaaaagtccc	cagaaaggat	ctcatcgta	tgctcaggga	caactgacgtg	720
aacaagaagg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcggt	aatgttgctg	900
gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaatt	aatggccaaa	gcactgctct	tatayggtgc	tgatatcgaa	1020
tcaaaaaaca	aggtatagat	ctactaattt	tatcttcaaa	atactgaaat	gcattcattt	1080
taacattgac	tggtgtaagg	gccagtcttc	cgtatttggg	agctcaagca	taacttgaat	1140
gaaaatattt	tgaatgacc	taattatctm	agactttatt	ttaaatattg	ttattttcaa	1200
agaagcatta	gagggtacag	tttttttttt	ttaaatgcac	ttctggtaaa	tacttttggt	1260
gaaaacactg	aatttgtaaa	aggtataact	tactattttt	caatttttcc	ctcctaggat	1320
ttttttcccc	taatgaatgt	aagatggcaa	aatttgccct	gaaatagggt	ttacatgaaa	1380
actccaagaa	aagttaaaca	tgtttcagtg	aatagagatc	ctgctccttt	ggcaagtccc	1440
taaaaaacag	taatagatac	gagggtgatgc	gcctgtcagt	ggcaagggtt	aagatatattc	1500
tgatctcgtg	cc					1512

&lt;210&gt; 369

&lt;211&gt; 1853

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 369

gggtcgccca	gggggsgcgt	gggctttcct	cgggtgggtg	tgggttttcc	ctgggtgggg	60
tgggctgggc	trgaatcccc	tgctgggggt	ggcagggttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggt	gaaactgggt	ggtagaacgc	180
atctgttggc	tactactggc	ttctcctggc	tgttaaaagc	agatggtggt	tgaggttgat	240
tccatgccgg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtgggtgctg	ccactgcttc	540
ccctgctgca	gggggagcrg	caagagcaag	gtgggcgctt	ggggagacta	cgatgacagy	600
gccttcatgg	akcccaggta	ccacgtccrt	ggagaagatc	tggacaagct	ccacagagct	660
gcctggtggg	gtaaaagtccc	cagaaaggat	ctcatcgta	tgctcaggga	cackgaygtg	720
aacaagargg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcggt	aatgttgctg	900
gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaatt	aatggccaaa	gcactgctct	tatayggtgc	tgatatcgaa	1020
tcaaaaaaca	agcatggcct	cacaccactg	ytacttggtr	tacatgagca	aaaacagcaa	1080
gtsgtgaaat	ttttaatyaa	gaaaaaagcg	aattttaaat	gcrctggata	gatatggaag	1140
ractgctctc	atacttgctg	tatgttggtg	atcagcaagt	atagtcagcc	ytctacttga	1200
gcaaaatrtr	gatgtatctt	ctcaagatct	ggaaagacgg	ccagagagta	tgctgtttct	1260
agtcatcatc	atgtaatttg	ccagttactt	tctgactaca	aagaaaaaca	gatgttaaaa	1320
atctcttctg	aaaacagcaa	tccagaacaa	gacttaaaagc	tgacatcaga	ggaagagtca	1380
caaaggctta	aaggagtgta	aaacagccag	ccagaggcat	ggaaactttt	aaattttaac	1440
ttttgtttta	atgttttttt	tttttgcctt	ataaatatta	gatagtccca	aatgaaatwa	1500
cctatgagac	taggctttga	gaatcaatag	attctttttt	taagaatctt	ttggctaagg	1560
gcggtgtctc	acgcctgtaa	ttccagcacc	ttgagaggct	gagggtgggca	gatcacgaga	1620
tcaggagatc	gagaccatcc	tggctaacac	ggtgaaaccc	catctctact	aaaaatacaa	1680

aaacttagct	gggtgtggtg	gcgggtgcct	gtagtcccag	ctactcagga	rgctgaggca	1740
ggagaatggc	atgaacccgg	gaggtggagg	ttgcagttag	ccgagatccg	ccactacact	1800
ccagcctggg	tgacagagca	agactctgtc	tcaaaaaaaaa	aaaaaaaaaaa	aaa	1853

&lt;210&gt; 370

&lt;211&gt; 2184

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 370

ggcacgagaa	ttaaaaccct	cagcaaaaca	ggcatagaag	ggacatacct	taaagtaata	60
aaaaccacct	atgacaagcc	cacagccaac	ataatactaa	atgggggaaaa	gttagaagca	120
tttctctga	gaactgcaac	aataaataca	aggatgctgg	attttgtcaa	atgccttttc	180
tgtgtctgtt	gagatgctta	tgtgactttg	cttttaattc	tgtttatgtg	attatcacat	240
ttattgactt	gcctgtgtta	gaccggaaga	gctgggggtg	ttctcaggag	ccaccgtgtg	300
ctgcggcagc	ttcgggataa	cttgaggctg	catcactggg	gaagaaacac	aytctgtcc	360
gtggcgtga	tggctgagga	cagagcttca	gtgtggcttc	tctgcgactg	gcttcttcgg	420
ggagtctctc	cttcatagtt	catccatag	gctccagagg	aaaattatat	tattttgtta	480
tggatgaaga	gtattacgtt	gtgcagatat	actgcagtgt	cttcatctct	tgatgtgtga	540
ttgggtaggt	tccaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gatattgtgg	tttctggatc	tcatectctg	tgggtggaca	660
gctttctcca	ccttgcctga	agtgaacctg	tgtccagaag	tttgatggct	gaggagtata	720
ccatcgtgca	tgcactcttc	atttcctgca	tttcttcctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
agcaagaggt	gcaagtgggtg	ctgccactgc	ttcccctgct	gcaggggagc	ggcaagagca	900
acgtggtcgc	ttggggagac	tacgatgaca	gogccttcat	ggatcccagg	taccacgtcc	960
atggagaaga	tctggacaag	ctccacagag	ctgcctggtg	gggtaaagtc	cccagaaagg	1020
atctcatcgt	catgctcagg	gacacggtg	tgaacaagag	ggacaagcaa	aagaggactg	1080
ctctacatct	ggcctctgcc	aatgggaatt	cagaagtagt	aaaactcgtg	ctggacagac	1140
gatgtcaact	taatgtcctt	gacaacaaaa	agaggacagc	tctgacaaag	gccgtacaat	1200
gccaggaaga	tgaatgtgcg	ttaatgttgc	tggaacatgg	cactgatcca	aatattccag	1260
atgagtatgg	aaataccact	ctacactatg	ctgtctacaa	tgaagataaa	ttaatggcca	1320
aagcactgct	cttatacggg	gctgatatcg	aatcaaaaaa	caagcatggc	ctcacaccac	1380
tgctacttgg	tatacatgag	caaaaacagc	aagtggtgaa	atttttaatc	aagaaaaaag	1440
cgaatttaaa	tgcgctggat	agatatggaa	gaactgctct	catacttgct	gtatgtttgtg	1500
gatcagcaag	tatagtcagc	cctctacttg	agcaaaatgt	tgatgtatct	tctcaagatc	1560
tggaaagacg	gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	1620
ttctgactac	aaagaaaaac	agatgttaaa	aatctcttct	gaaaacagca	atccagaaca	1680
agacttaaa	ctgacatcag	aggaagagtc	acaaaggctt	aaaggaagtg	aaaacagcca	1740
gccagaggca	tggaaacttt	taaatttaaa	cttttggttt	aatgtttttt	ttttttgcct	1800
taataatatt	agatagtccc	aaatgaaatw	acctatgaga	ctaggctttg	agaatcaata	1860
gattcttttt	ttaagaatct	tttggtcagg	agcgtgtct	cacgcctgta	attccagcac	1920
cttgagaggc	tgaggtgggc	agatcacgag	atcaggagat	cgagaccatc	ctggctaaca	1980
cggtgaaacc	ccatctctac	taaaaataca	aaaacttagc	tgggtgtggt	ggcgggtgcc	2040
tgtagtccca	gctactcagg	argctgaggc	aggagaatgg	catgaacccg	ggaggtggag	2100
gttgcaagtga	gccgagatcc	gccactacac	tccagcctgg	gtgacagagc	aagactctgt	2160
ctcaaaaaaa	aaaaaaaaaa	aaaaa				2184

&lt;210&gt; 371

&lt;211&gt; 1855

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1855)

&lt;223&gt; n = A,T,C or G

## &lt;400&gt; 371

tgcacgcac	ggccagtg	tgtgccacgt	acactgacgc	cccctgagat	gtgcacgccc	60
cacgcgcac	ttgcacgcgc	ggcagcggct	tggttggtt	gtaacggctt	gcacgcgcac	120
gccgccccg	cataaccgtc	agactggcct	gtaacggctt	gcaggcgcac	gccgcacgcg	180
cgtaacggct	tggttgccct	gtaacggctt	gcacgtgcat	gctgcacgcg	cgtaacggc	240
ttggctggca	tgtagccgct	tggttggtt	ttgcattt	tgtctggctk	ggcgttgkty	300
tcttggttg	acgcttcctc	cttgatkg	cgtttcctcc	ttgatkgac	gtttctyty	360
tcgcttcct	ttgctggact	tgacctttt	tctgctgggt	ttggcattcc	tttgggtg	420
gctgggtgtt	ttctccggg	gggkkgccc	ttcctgggt	gggcgtgggk	cgccccagg	480
gggcgtggg	tttccccgg	tggttggtt	tttctcggg	gtgggtggg	ctgtgctggg	540
atccccctgc	tggttggtt	agggattgac	tttttcttc	aaacagattg	gaaacccgga	600
gtaacntgct	agttggtgaa	actggttggt	agacgcgac	tgtggttact	actgtttctc	660
ctggtctgta	aaagcagatg	gtggctgagg	ttgattcaat	gccggctgct	tcttctgtga	720
agaagccatt	tggtctcagg	agcaagatgg	gcaagtgggt	cgccactgct	tccccctgctg	780
cagggggagc	ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	840
gacgcttggg	agcaagaggt	gcaagtgggt	ctgccactg	cttccccctgc	tgcaaggag	900
cggaagagc	aacgtggkcg	cttggggaga	ctacgatgac	agcgccttca	tggakccag	960
gtaccacgtc	crtggagaag	atctggacaa	gctccacaga	gctgcctggt	ggggtaaagt	1020
cccagaaaag	gatctcatcg	tcatgctcag	ggacactgay	gtgaacaaga	rggacaagca	1080
aaagaggact	gctctacatc	tggcctctgc	caatgggaat	tcagaagtag	taaaactcgt	1140
gctggacaga	cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	1200
ggccgtacaa	tgccaggaag	atgaatgtgc	gttaatgttg	ctggaacatg	gcaactgatcc	1260
aaatattcca	gatgagtatg	gaaataccac	tctacactat	gctgtctaca	atgaagataa	1320
attaatggcc	aaagcactgc	tcttatacgg	tgctgatata	gaatcaaaaa	acaaggtata	1380
gatctactaa	ttttatcttc	aaaatactga	aatgcattca	ttttaacatt	gaactgtgta	1440
agggccagtc	ttccgtat	ggaagctcaa	gcataacttg	aatgaaaata	ttttgaaatg	1500
acctaat	ctaagact	attttaata	ttgttat	caaagaagca	ttagagggt	1560
cagtttttt	tttttaaatg	cacttctggt	aaatact	gttgaaaaca	ctgaattt	1620
aaaaggtaat	acttactatt	tttcaat	tccctcctag	gattttttt	ccctaata	1680
tgtaataggg	caaaatttgc	cctgaaatag	gttttacatg	aaaactccaa	gaaaagttaa	1740
acatgtttca	gtgaatagag	atcctgctcc	tttggcaagt	tcctaaaaaa	cagtaataga	1800
tacgaggtga	tgcgcctg	agtggcaagg	tttaagatat	ttctgatctc	gtgcc	1855

&lt;210&gt; 372

&lt;211&gt; 1059

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

## &lt;400&gt; 372

gcaacgtggg	cacttctgga	gaccacaacg	actcctctgt	gaagacgctt	gggagcaaga	60
ggtgcaagt	gtgctgccca	ctgcttcccc	tgctgcagg	gagcggcaag	agcaacgtgg	120
gcgcttgrg	agactmcgat	gacagygcct	tcatggagcc	caggtaccac	gtccgtggag	180
aagatctgga	caagctccac	agagctgccc	tggtggggta	aagtccccag	aaaggatctc	240
atcgtcatgc	tcaggggacac	tgaygtgaac	aagarggaca	agcaaaagag	gactgctcta	300
catctggcct	ctgccaatgg	gaattcagaa	gtagtaaaac	tcstgctgga	cagacgatgt	360
caacttaatg	tccttgacaa	caaaaagagg	acagctctga	yaaaggccgt	acaatgccag	420
gaagatgaat	gtgcgttaat	gttgetggaa	catggcactg	atccaaatat	tccagatgag	480
tatggaaata	ccactctrca	ctaygctrct	tayaatgaag	ataaattaat	ggccaaagca	540
ctgctcttat	ayggtgctga	tatcgaatca	aaaaacaagg	tatagatcta	ctaattttat	600
cttcaaaata	ctgaaatgca	ttcattttta	cattgacgtg	tgtaagggcc	agtcttccgt	660
atttggaagc	tcaagcataa	cttgaatgaa	aatattttga	aatgacctaa	ttatctaaga	720
ctttat	aatattgtta	ttttcaaaga	agcattagag	ggtacagttt	ttttttttta	780
aatgcacttc	tggtaaatac	ttttgttgaa	aacactgaat	ttgtaaaagg	taatacttac	840
tatttttcaa	tttttccctc	ctaggatttt	tttcccttaa	tgaatgtaag	atggcaaaat	900
ttgccctgaa	ataggtttta	catgaaaact	ccaagaaaag	ttaaacatgt	ttcagtgaat	960
agagatcctg	ctcctttggc	aagttcctaa	aaaacagtaa	tagatacgag	gtgatgcgcc	1020
tgctcagtggc	aaggtttaag	atatttctga	tctcgtgcc			1059

<210> 373  
 <211> 1155  
 <212> DNA  
 <213> Homo sapien

<400> 373

atggtggttg	aggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttggtctc	60
aggagcaaga	tgggcaagt	gtgctgccgt	tgcttcccc	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgctgcagg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tgggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccaggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctgggtgggt	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tggtgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatggtgctg	atatcgaatc	aaaaaacaag	catggcctca	caccactggt	acttggtgta	840
catgagcaaa	aacagcaagt	cgtgaaat	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgctctcata	cttgctgtat	gttggtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaaa	tgtctcaaga	1140
accagaaata	ataaa					1155

<210> 374  
 <211> 2000  
 <212> DNA  
 <213> Homo sapien

<400> 374

atggtggttg	aggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttggtctc	60
aggagcaaga	tgggcaagt	gtgctgccgt	tgcttcccc	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgctgcagg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tgggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccaggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctgggtgggt	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tggtgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatggtgctg	atatcgaatc	aaaaaacaag	catggcctca	caccactggt	acttggtgta	840
catgagcaaa	aacagcaagt	cgtgaaat	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgctctcata	cttgctgtat	gttggtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agacttaag	1140
ctgacatcag	aggaagagtc	acaaagggtc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggtgatagag	aggttgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaagtgtgt	cactgctggc	1320
aatggtgata	atggattaat	tcctcaaagg	aagagcagaa	cacctgaaaa	tcagcaattt	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atttgcgaat	tagtttctga	ctacaaagaa	1440
aaacagatgc	caaaatactc	ttctgaaaac	agcaaccag	aacaagactt	aaagctgaca	1500

tcagaggaag	agtcacaaaag	gcttgagggc	agtgaaaatg	gccagccaga	gctagaaaat	1560
tttatggcta	tcgaagaaat	gaagaagcac	ggaagtactc	atgtcggatt	cccagaaaac	1620
ctgactaatg	gtgccactgc	tggcaatggt	gatgatggat	taattcctcc	aaggaagagc	1680
agaacacctg	aaagccagca	atttcctgac	actgagaatg	aagagtatca	cagtgcagaa	1740
caaaatgata	ctcagaagca	attttgtgaa	gaacagaaca	ctggaatatt	acacgatgag	1800
attctgattc	atgaagaaaa	gcagatagaa	gtgggtgaaa	aaatgaattc	tgagctttct	1860
cttagttgta	agaaagaaaa	agacatcttg	catgaaaata	gtacgttgcg	ggaagaaatt	1920
gccatgctaa	gactggagct	agacacaatg	aaacatcaga	gccagctaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa					2000

&lt;210&gt; 375

&lt;211&gt; 2040

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 375

atgggtggtt	aggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttgggtctc	60
aggagcaaga	tgggcaagt	gtgctgccgt	tgtctccctc	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgtctcagg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tgggtgctgc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	ggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctgggtgggt	aaagtcccc	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcc	ggaagatgaa	660
tgtgcgttaa	tgttgcgtga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaaagc	actgctctta	780
tatgggtgctg	atatcgaatc	aaaaaacaag	catggcctca	caccactggt	acttgggtgta	840
catgacaaa	aacagcaagt	cgtgaaattt	ttaatcaaga	aaaaagcgaa	tttaaagtga	900
ctggatagat	atggaaggac	tgtctcata	cttgcgttat	gttgtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agacttaaa	1140
ctgacatcag	aggaagagtc	acaaagggtc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggtgatagag	aggttgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaattggtg	caactgctggc	1320
aatgggtgata	atggattaat	tcctcaaagg	aagagcagaa	cacctgaaaa	tcagcaattt	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atttgcgaat	tagtttctga	ctacaaagaa	1440
aaacagatgc	caaaatactc	ttctgaaaac	agcaaccag	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaaag	gcttgagggc	agtgaaaatg	gccagccaga	gaaaagatct	1560
caagaaccag	aaataaataa	ggatggtgat	agagagctag	aaaattttat	ggctatcgaa	1620
gaaatgaaga	agcacggaag	tactcatgtc	ggattcccag	aaaacctgac	taatggtgcc	1680
actgctggca	atggtgatga	tggattaatt	cctccaagga	agagcagaac	acctgaaaagc	1740
cagcaatttc	ctgacactga	gaatgaagag	tatcacagt	acgaacaaaa	tgatactcag	1800
aagcaatttt	gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860
gaaaagcaga	tagaagtggg	tgaaaaaatg	aattctgagc	tttctcttag	ttgtaagaaa	1920
gaaaaagaca	tcttgcatga	aaatagtacg	ttgcgggaag	aaattgccat	gctaagactg	1980
gagctagaca	caatgaaaca	tcagagccag	ctaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040

&lt;210&gt; 376

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 376

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe

124

1	5	10	15
Leu His Leu	Ala Gly Ser Asp Leu	Leu Ser Arg Ser Leu	Met Ala Glu
	20	25	30
Glu Tyr Thr	Ile Val His Ala Ser	Phe Ile Ser Cys Ile	Ser Ser Ser
	35	40	45
Leu Asp Gly	Gln Gly Glu Arg Gln	Glu Gln Arg Gly His	Phe Trp Arg
	50	55	60
Pro Gln Arg	Leu Leu Cys Glu Asp	Ala Trp Glu Gln Glu	Val Gln Val
	65	70	75
Val Leu Pro	Leu Leu Pro Leu Leu	Gln Gly Ser Gly Lys	Ser Asn Val
	85	90	95
Val Ala Trp	Gly Asp Tyr Asp Asp	Ser Ala Phe Met Asp	Pro Arg Tyr
	100	105	110
His Val His	Gly Glu Asp Leu Asp	Lys Leu His Arg Ala	Ala Trp Trp
	115	120	125
Gly Lys Val	Pro Arg Lys Asp Leu	Ile Val Met Leu Arg	Asp Thr Asp
	130	135	140
Val Asn Lys	Arg Asp Lys Gln Lys	Arg Thr Ala Leu His	Leu Ala Ser
	145	150	155
Ala Asn Gly	Asn Ser Glu Val Val	Lys Leu Val Leu Asp	Arg Arg Cys
	165	170	175
Gln Leu Asn	Val Leu Asp Asn Lys	Lys Arg Thr Ala Leu	Thr Lys Ala
	180	185	190
Val Gln Cys	Gln Glu Asp Glu Cys	Ala Leu Met Leu Leu	Glu His Gly
	195	200	205
Thr Asp Pro	Asn Ile Pro Asp Glu	Tyr Gly Asn Thr Thr	Leu His Tyr
	210	215	220
Ala Val Tyr	Asn Glu Asp Lys Leu	Met Ala Lys Ala Leu	Leu Leu Tyr
	225	230	235
Gly Ala Asp	Ile Glu Ser Lys Asn	Lys His Gly Leu Thr	Pro Leu Leu
	245	250	255
Leu Gly Ile	His Glu Gln Lys Gln	Gln Val Val Lys Phe	Leu Ile Lys
	260	265	270
Lys Lys Ala	Asn Leu Asn Ala Leu	Asp Arg Tyr Gly Arg	Thr Ala Leu
	275	280	285
Ile Leu Ala	Val Cys Cys Gly Ser	Ala Ser Ile Val Ser	Pro Leu Leu
	290	295	300
Glu Gln Asn	Val Asp Val Ser Ser	Gln Asp Leu Glu Arg	Arg Pro Glu
	305	310	315
Ser Met Leu	Phe Leu Val Ile Ile	Met	
	325		

&lt;210&gt; 377

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(148)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 377

Met Thr Xaa	Pro Ser Trp Ser	Pro Gly Thr Thr	Ser Val Glu Lys	Ile
1	5	10	15	
Trp Thr Ser	Ser Thr Glu Leu	Pro Trp Trp Gly	Lys Val Pro	Arg Lys
	20	25	30	
Asp Leu Ile	Val Met Leu Arg	Asp Thr Asp Val	Asn Lys Xaa	Asp Lys

35 40 45  
 Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu  
 50 55 60  
 Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp  
 65 70 75 80  
 Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp  
 85 90 95  
 Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro  
 100 105 110  
 Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp  
 115 120 125  
 Lys Leu Met Ala Lys Ala Leu Leu Tyr Gly Ala Asp Ile Glu Ser  
 130 135 140  
 Lys Asn Lys Val  
 145

<210> 378  
 <211> 1719  
 <212> PRT  
 <213> Homo sapien

<400> 378  
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
 1 5 10 15  
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
 20 25 30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35 40 45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50 55 60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65 70 75 80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85 90 95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100 105 110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
 165 170 175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
 180 185 190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
 195 200 205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
 210 215 220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
 225 230 235 240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
 245 250 255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
 260 265 270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275 280 285



Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr  
 290 295 300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305 310 315 320  
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu  
 325 330 335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340 345 350  
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
 355 360 365  
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys  
 370 375 380  
 Pro Arg Thr His Met Val Glu Val Asp Ser Met Pro Ala Ala Ser  
 385 390 395 400  
 Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys  
 405 410 415  
 Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly  
 420 425 430  
 Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys  
 435 440 445  
 Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly  
 450 455 460  
 Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys  
 465 470 475 480  
 Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys  
 485 490 495  
 Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp  
 500 505 510  
 Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu  
 515 520 525  
 Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp  
 530 535 540  
 Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln  
 545 550 555 560  
 Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val  
 565 570 575  
 Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn  
 580 585 590  
 Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu  
 595 600 605  
 Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp  
 610 615 620  
 Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys  
 625 630 635 640  
 Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys  
 645 650 655  
 Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys  
 660 665 670  
 Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala  
 675 680 685  
 Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly  
 690 695 700  
 Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser  
 705 710 715 720  
 Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser  
 725 730 735  
 His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln  
 740 745 750

Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys  
 755 760 765  
 Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser  
 770 775 780  
 Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp  
 785 790 795 800  
 Arg Glu Val Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly  
 805 810 815  
 Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn  
 820 825 830  
 Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe  
 835 840 845  
 Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser  
 850 855 860  
 Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn  
 865 870 875 880  
 Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu  
 885 890 895  
 Glu Gly Ser Glu Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile  
 900 905 910  
 Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn  
 915 920 925  
 Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro  
 930 935 940  
 Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu  
 945 950 955 960  
 Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe  
 965 970 975  
 Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His  
 980 985 990  
 Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser  
 995 1000 1005  
 Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu  
 1010 1015 1020  
 Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His  
 1025 1030 1035 1040  
 Gln Ser Gln Leu Pro Arg Thr His Met Val Val Glu Val Asp Ser Met  
 1045 1050 1055  
 Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met  
 1060 1065 1070  
 Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys  
 1075 1080 1085  
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr  
 1090 1095 1100  
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys  
 1105 1110 1115 1120  
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp  
 1125 1130 1135  
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His  
 1140 1145 1150  
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp  
 1155 1160 1165  
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg  
 1170 1175 1180  
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val  
 1185 1190 1195 1200  
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys  
 1205 1210 1215

Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly  
 1220 1225 1230  
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn  
 1235 1240 1245  
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys  
 1250 1255 1260  
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro  
 1265 1270 1275 1280  
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr  
 1285 1290 1295  
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp  
 1300 1305 1310  
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Gly Val  
 1315 1320 1325  
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala  
 1330 1335 1340  
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala  
 1345 1350 1355 1360  
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn  
 1365 1370 1375  
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr  
 1380 1385 1390  
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr  
 1395 1400 1405  
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu  
 1410 1415 1420  
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly  
 1425 1430 1435 1440  
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn  
 1445 1450 1455  
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser  
 1460 1465 1470  
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly  
 1475 1480 1485  
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu  
 1490 1495 1500  
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys  
 1505 1510 1515 1520  
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser  
 1525 1530 1535  
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu  
 1540 1545 1550  
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser  
 1555 1560 1565  
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe  
 1570 1575 1580  
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe  
 1585 1590 1595 1600  
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly  
 1605 1610 1615  
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro  
 1620 1625 1630  
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln  
 1635 1640 1645  
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile  
 1650 1655 1660  
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser  
 1665 1670 1675 1680

Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn  
 1685 1690 1695  
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr  
 1700 1705 1710  
 Met Lys His Gln Ser Gln Leu  
 1715

<210> 379  
 <211> 656  
 <212> PRT  
 <213> Homo sapien

<400> 379  
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
 1 5 10 15  
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
 20 25 30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35 40 45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50 55 60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65 70 75 80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85 90 95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100 105 110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
 165 170 175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
 180 185 190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
 195 200 205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
 210 215 220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
 225 230 235 240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
 245 250 255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
 260 265 270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275 280 285  
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr  
 290 295 300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305 310 315 320  
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu  
 325 330 335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340 345 350  
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile

355                      360                      365  
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu  
 370                      375                      380  
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys  
 385                      390                      395                      400  
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu  
 405                      410                      415  
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn  
 420                      425                      430  
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro  
 435                      440                      445  
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu  
 450                      455                      460  
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu  
 465                      470                      475                      480  
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp  
 485                      490                      495  
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu  
 500                      505                      510  
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys  
 515                      520                      525  
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly  
 530                      535                      540  
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser  
 545                      550                      555                      560  
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr  
 565                      570                      575  
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln  
 580                      585                      590  
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln  
 595                      600                      605  
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys  
 610                      615                      620  
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile  
 625                      630                      635                      640  
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu  
 645                      650                      655

&lt;210&gt; 380

&lt;211&gt; 671

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 380

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
 1                      5                      10                      15  
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
 20                      25                      30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35                      40                      45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50                      55                      60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65                      70                      75                      80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85                      90                      95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100                      105                      110

Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
 165 170 175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
 180 185 190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
 195 200 205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
 210 215 220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
 225 230 235 240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
 245 250 255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
 260 265 270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275 280 285  
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr  
 290 295 300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305 310 315 320  
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu  
 325 330 335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340 345 350  
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
 355 360 365  
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu  
 370 375 380  
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys  
 385 390 395 400  
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu  
 405 410 415  
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn  
 420 425 430  
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro  
 435 440 445  
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu  
 450 455 460  
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu  
 465 470 475 480  
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp  
 485 490 495  
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu  
 500 505 510  
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp  
 515 520 525  
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys  
 530 535 540  
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala  
 545 550 555 560  
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg  
 565 570 575

```
<210> 381
<211> 251
<212> DNA
<213> Homo sapien
```

<400> 381						
ggagaagcgt	ctgctggggc	aggaaggggt	tccctgccc	tctcacctgt	ccctcaccaa	60
ggtaacatgc	ttcccctaag	ggtatcccaa	cccaggggcc	tcaccatgac	ctctgagggg	120
ccaatatccc	aggagaagca	ttggggaggt	gggggcaggt	gaaggaccca	ggactcacac	180
atcctgggcc	tccaaggcag	aggagagggt	cctcaagaag	gtcaggagga	aaatccgtaa	240
caaqcagtca	g					251

```
<210> 382
<211> 3279
<212> DNA
<213> Homo sapiens
```

<400>	382							
cttcctgcag	cccccatgct	ggtgaggggc	acgggcagga	acagtggacc	caacatggaa	60		
atgctggagg	gtgtcaggaa	gtgatcgggc	tctggggcag	ggaggagggg	tggggagtg	120		
cactggggagg	ggacatcctg	cagaaggtag	gagtgcagaa	acaccgcctg	caggggaggg	180		
gagagccctg	cggcaccttg	gggagcagag	ggagcagcac	ctgcccaggc	ctgggagagg	240		
gggcctggag	ggcgtgagga	ggagcgaggg	ggctgcattg	ctggagtga	ggatcagggg	300		
cagggcgcga	gatggcctca	cacagggaa	agagggcccc	tcctgcaggg	cctcacctgg	360		
gccacaggag	gacactgctt	ttcctctgag	gagtcaggag	ctgtggatgg	tgctggacag	420		
aagaaggaca	gggcctggct	cagggtgtcca	gaggctgtcg	ctggcttccc	tttgggatca	480		
gactgcaggg	agggagggcg	gcagggttgt	ggggggagtg	acgatgagga	tgacctgggg	540		
gtggctccag	gccttgcccc	tgccctgggc	ctcaccagcg	ctccctcaca	gtctcctggc	600		
cctcagtcctc	tccctctccac	tcacatctcc	atctggcctc	agtgggtcat	ctgatcaact	660		
gaactgacca	taccagcccc	gtccacagcg	ctcccatggc	tcccaatgc	cctggagagg	720		
ggacatctag	tcagagagta	gtcctgaaga	ggtggcctct	gcgatgtgcc	tgtgggggca	780		
gcatactgca	gatggctccg	gccctcatcc	tgctgacctg	totgcaggga	ctgtcctcct	840		
ggaccttgcc	ccttgtgcag	gagctggacc	ctgaagtccc	ctcccatag	gccaagactg	900		
gagccttggt	ccctctgttg	gaactccctgc	ccatatctct	gtgggagtgg	gttctggaga	960		
catttctgtc	tgttcctgag	agctgggaat	tgctctcagt	catctgcctg	cgcggttctg	1020		
agagatggag	ttgcctaggc	agttattggg	gccaatcttt	ctcactgtgt	ctctcctcct	1080		
ttacccttag	ggtgattctg	gggggtccact	tgtctgtaat	ggtgtgcttc	aagggtatcac	1140		
atcatggggc	cctgagccat	gtgccctgcc	tgaaaagcct	gctgtgtaca	ccaaggtggg	1200		
gcattaccgg	aagtggatca	aggacaccat	cgcagccaac	ccctgagtgc	ccctgtccca	1260		
cccctacctc	tagtaaattt	aagtccacct	cacgttctgg	catcacttgg	cctttctgga	1320		
tgctggacac	ctgaagcttg	gaactcacct	ggccgaagct	cgagcctcct	gagtcctact	1380		
gacctgtgct	ttctgtgtgt	gagtcagggg	ctcttaggaa	aaggaattgg	cagacacagg	1440		
tgtatgccaa	tgtttctgaa	atgggtataa	tttgcctctc	taacctcgaa	cactggctgt	1500		
ctctgaagac	ttctcgtcca	gtttcagtga	ggacacacac	aaagacgtgg	gtgacctagt	1560		
tgtttgtggg	gtgcagagat	gggaggggtg	gggcccaccc	tggaagagtg	gacagtgaca	1620		

```

caaggtggac actctctaca gatcactgag gataagctgg agccacaatg catgaggcac 1680
acacacagca aggttgacgc tgtaaacata gcccacgctg tcctgggggc actgggaagc 1740
ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgttggtg aaggagggac 1800
tagggggaga aactgaaagc tgattaatta caggagggtt gttcagggtcc cccaaccac 1860
cgtcagattt gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggt 1920
ttattatggt ttgttacatt gataggatag atactgaaat cagcaaaca aacagatgta 1980
tagattagag tgtggagaaa acagaggaaa acttgacgtt acgaagactg gcaacttggc 2040
tttactaagt tttcagactg gcaggaagtc aaacctatta ggctgaggac cttgtggagt 2100
gtagctgata cagctgatag aggaactagc cagggtgggg cctttccctt tggatggggg 2160
gcatatccga cagttattct ctccaagtgg agacttacgg acagcatata attctccctg 2220
caaggatgta tgataatatg tacaagtaa ttccaactga ggaagctcac ctgatcctta 2280
gtgtccaggg tttttactgg ggggtctgtg gacgagtatg gactacttga ataattgacc 2340
tgaagtctc agacctgagg ttccctagag ttcaaacaga tacagcatgg tccagagtcc 2400
cagatgtaga aaaacaggga ttcatcaca atcccatctt tagcatgaag ggtctggcat 2460
ggcccaaggc cccaagtata tcaaggcact tgggcagaac atgccaagga atcaaatgtc 2520
atctcccagg agttattcaa ggggtgagccc tttacttggg atgtacaggc tttgagcagt 2580
gcagggctgc tgagtcaacc ttttattgta caggggatga gggaaaggga gaggatgagg 2640
aagccccctt ggggatttgg tttggtcttg tgatcagggt gtctatgggg ctatccctac 2700
aaagaagaat ccagaaatag gggcacattg aggaatgata ctgagcccaa agagcattca 2760
atcattgttt tatttgcctt cttttcacac cattggtgag ggagggatta ccacctggg 2820
gttatgaaga tggttgaaca cccacacat agcacggag atatgagatc aacagttct 2880
tagccataga gattcacagc ccagagcagg aggacgctgc acaccatgca ggatgacatg 2940
ggggatgcgc tcgggatttg tgtgaagaag caaggactgt tagaggcagg ctttatagta 3000
acaagacggg ggggcaaaact ctgatttccg tgggggaatg tcatggtctt gctttactaa 3060
gttttgagac tggcaggtag tgaactcat taggctgaga accttgtgga atgcagctga 3120
cccagctgat agaggaagta gccaggtggg agcctttccc agtgggtgtg ggacatatct 3180
ggcaagattt tgtggcactc ctggttacag atactggggc agcaaataaa actgaatctt 3240
gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtttt 3279

```

&lt;210&gt; 383

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 383

```

Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
      5                                10                                15

```

```

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
      20                                25                                30

```

```

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
      35                                40                                45

```

```

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
      50                                55                                60

```

```

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
      65                                70                                75                                80

```

```

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
      85                                90                                95

```

```

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
      100                                105                                110

```

```

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
      115                                120                                125

```



Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn  
 130 135 140

Ala Leu Glu Arg Gly His Leu Val Arg Glu  
 145 150

<210> 384  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 384  
 ggatcctcta gaggcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60  
 aaagatgtgt ttgttttgg actctctgtg gtcccttcca atgctgtggg ttccaacca 120  
 ggggaagggt cccttttgca ttgccaagt ccataaccat gagcactact ctaccatggg 180  
 tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240  
 acttaacctt gaaatggaaa gtcttgcaat cccatttgca ggatccgtct gtgcacatgc 300  
 ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360  
 tccccaagac acatcctaaa aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420  
 cttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480  
 tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttc aaagtaaaaa 540  
 aaaaaaaaa aaaaaaa 557

<210> 385  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 385  
 ttcccagggt atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60  
 gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120  
 tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180  
 aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240  
 tatcagacag gtccagtttc cgcaccaaca cctgctggtt ccctgtcgtg gtctggatct 300  
 ctttggccac caattcccc tttccacat cccggca 337

<210> 386  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<400> 386  
 gggcccgtcta ccggcccagg cccgcctcg cgagtcctcc tccccgggtg cctgcccga 60  
 gcccgctcgg ccagaggggt gggcggggg ctgcctctac cggtggcgg ctgtaactca 120  
 gcgaccttg cccgaaggct ctagcaagga cccaccgacc ccagccggcg cggcgcggc 180  
 gcggactttg cccggtgtgt gggcgggagc ggactgcgtg tccgcggacg ggcagcgaag 240  
 atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 387  
 gggccgagtc gggcaccaag ggactctttg caggcttctt tcctcggatc atcaaggctg 60  
 cccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120

```

tgaaccagga cgggcttctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180
ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttcctc agcactgagg 240
gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggct gtccctctgg 300
gcgggccagc acttctcag acacaacttc ttctgtctgc tccagtcgtg gggatcatca 360
cttaccaccc ccccaagttc aagaccaaatt cttccagctg ccccttcgt gtttccctgt 420
gtttgtgtga gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaa aaaaaaa 537

```

&lt;210&gt; 388

&lt;211&gt; 520

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 388

```

aggataattt ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaagg aaatgtcatg 60
tgaggttaaa ccagtttgca ttcccctaatt gtggaaaaag taagaggact actcagcact 120
gtttgaagat tgcctcttct acagcttctg agaatttgtt tatttcaactt gccaaagtga 180
ggacccccct cccaacatgc cccagcccac ccctaagcat ggtcccttgt caccaggcaa 240
ccaggaaact gctacttgtg gacctacca gagaccagga gggtttggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact cataactcaac tcaactaggc 360
tcatactcaa ttgatgggta ttagacaatt ccatttcttt ctgggttatta taaacagaaa 420
atctttcctc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480
atgaacttgt cttattttta tgggtgggtt tttttctggt 520

```

&lt;210&gt; 389

&lt;211&gt; 365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 389

```

cgttgcccc a gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
gagttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgcg ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ccttctctct ccttcagcaa ggggcgttgc ccacattctc 300
tgagggtcag tggaagaacc tagactocca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

```

&lt;210&gt; 390

&lt;211&gt; 221

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(221)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 390

```

tgcctctcca tcctggcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggnnt ctcattgggtg tggaacatct ctgcttgagg ttccaggaag gcctctggct 120
gctctangag tctgancnga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gaggagtggt aggagttaag gctggatttc a 221

```

&lt;210&gt; 391

&lt;211&gt; 325

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(325)  
 <223> n = A,T,C or G

<400> 391  
 tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60  
 ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120  
 tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180  
 naanttingat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240  
 cactgcccag gaatcctaca gccagtaccc tgtcccgcac tctctaccta ccagtacgat 300  
 gagacctccg gctactacta tgacc 325

<210> 392  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 392  
 atattgttta actccttcct ttatatcttt taacattttc atggngaaaag gttcacatct 60  
 agtctcaact nggcnagn gn ctctacttg agtctcttcc cggcctggn ccagtngnaa 120  
 antaccanga accgncatgn cttanaaach nccctggttt tgggttnntc aatgactgca 180  
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240  
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393  
 <211> 566  
 <212> DNA  
 <213> Homo sapiens

<400> 393  
 actagtcag tgtggtggaa ttccggggccg cgtcgacgga caggtcagct gtctggctca 60  
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga ttaaattcag cctaaacggt 120  
 ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180  
 gagaaggctct agtttgtcca tcagcattat catgatatca ggactgggta cttgggttaag 240  
 gaggggtcta ggagatctgt cccttttaga gacaccttac ttataatgaa gtatttggga 300  
 ggggtggtttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360  
 catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420  
 ttctgcctca atgtttactg tgcctttggt tttgctagtt tgtgttggtg aaaaaaaaaa 480  
 cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540  
 ttttgcttat caaaaaaaaa aaaaaa 566

<210> 394  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(384)  
 <223> n = A,T,C or G

&lt;400&gt; 394

```
gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaatng gaccgggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcgggagaa agggggcagt aattacccaa atccggttg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384
```

&lt;210&gt; 395

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 395

```
ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360
gcagcctggt gagaccatcc aatcccaaat aaaatgcac 399
```

&lt;210&gt; 396

&lt;211&gt; 403

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(403)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 396

```
tggagttntc agtgcaaaaca agccataaag cttcagtagc aaattactgt ctcacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaa gtggatgaat aatctggata ttttctctaa aaagattcct tgaaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gtttagggga gggagtggag gataaaagaa ggaaaaaaag aagagtgaga aaacctattt 360
atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403
```

&lt;210&gt; 397

&lt;211&gt; 100

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(100)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 397

```
actagtnacg tgtgttgga ttcggggccg cgtcgaccta naanccatct ctatagcaaa 60
tccatccccg ctcttggttg gtnacagaat gactgacaaa 100
```

&lt;210&gt; 398

&lt;211&gt; 278

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(278)  
<223> n = A,T,C or G

<400> 398  
gcgccgcgt cgacagcagt tccgccagcg ctgccccctg ggtggggatg tgctgcacgc 60  
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120  
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgagggtg actcatcatg 180  
ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240  
ctatggccgc ttcattangt ggctcaacaa ggagaagg 278

<210> 399  
<211> 298  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(298)  
<223> n = A,T,C or G

<400> 399  
acggaggtgg aggaagcgc cctgggatcg anaggatggg tcctgncatt gaccncctcn 60  
ggggtgceng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgcgtgggct 120  
ccgagatcga gcgcattggc ctggatcatgg accgcatggg ctccgtggag cgcatgggct 180  
ccggcattga gcgcattggc ccgctgggac tcgaccacat ggctccanc attgancgca 240  
tgggccagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcattggg 298

<210> 400  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 400  
acatcaacta cttcctcatt ttaaggatag gcagttccct tcatccctt ttcctgcctt 60  
gtacatgtac atgtatgaaa ttctctctc ttaccgaact ctctccacac atcacaaagg 120  
caaagaacca cagccttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180  
tgagtctctt ttttccacgt ttaaggggac atggcaggac ttagagttgc gagttaagac 240  
tgagagggc tagagaatta ttcatatag gctttgaggc caccatgtc acttatccc 300  
tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360  
gttggcccca taattctggg cctttgttgt ttgttttaat tacttgggca tcccaggaag 420  
ctttccagt atctcctacc atgggcccc ctctgggat caagccctc ccaggccctg 480  
tccccagccc ctctgcccc agcccacccg cttgccttgg tgctcagccc tccattggg 540  
agcaggtt 548

<210> 401  
<211> 355  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(355)  
<223> n = A,T,C or G

<400> 401  
actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60  
tgatgtctcc aagtagtcca ccttcattta actctttgaa actgtatcat ctttgccaag 120  
taagagtggg ggctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180  
tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240  
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggg 300  
cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

<210> 402  
<211> 407  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(407)  
<223> n = A,T,C or G

<400> 402  
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60  
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120  
aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180  
gaataaagat aaaaaagaga aggacattac aaagggtggc ctgacctttg ataaatctca 240  
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300  
ttgtggagct tctcccctgc agagagtccc tgatctccca aaatttggtt gagatgtgaag 360  
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

<210> 403  
<211> 303  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(303)  
<223> n = A,T,C or G

<400> 403  
cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaatcc aggcacccaa 60  
tcctaagcaa gagccatggc atggtgaaaa tgcaaaagga gagtctggcc aatctacaaa 120  
tagagaacaa gacctactca gtcatgaaca aaaaggcaga caccaacatg gatctcatgg 180  
gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240  
tcttaacaac gaccgaaacc cattatttac ataaacctcc attcggtaac catgttgaaa 300  
gga 303

<210> 404  
<211> 225  
<212> DNA  
<213> Homo sapiens

<400> 404  
aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60  
attgttaatg cactcattta cttttacatg gtgaaagtgc tctcttgatc ctacaaacag 120  
acattttcca ctcgtgtttc catagtgtgt aagtgtatca gatgtgttgg gcatgtgaat 180  
ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcatt 225

<210> 405

<211> 334  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(334)  
<223> n = A,T,C or G

<400> 405  
gagctgttat actgtgagtt ctactaggaa atcatcaa atctgagggttg tctggaggac 60  
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120  
tcattccccat cccatgccaa aggaagacc tccctccttg gctcacagcc ttctctaggc 180  
ttcccagtgct ctccaggaca gagtgggtta tgttttcagc tccatccttg ctgtgagtgt 240  
ctggtgcggt tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300  
cactctccac tctctcannng fggatcccac ccct 334

<210> 406  
<211> 216  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(216)  
<223> n = A,T,C or G

<400> 406  
tttcatacct aatgagggag ttganatnac atnnaaccag gaaatgcatg gatctcaang 60  
gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcacttgct 120  
acnaaacaca aattttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180  
actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407  
<211> 413  
<212> DNA  
<213> Homo sapiens

<400> 407  
gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60  
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120  
gtacaacatt gcacccagtgc tcagattcta cacctggcca ctcaggaagc aagagttaat 180  
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240  
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300  
tgccagacag gagaaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360  
tgggagttcc agaaaaagtt aaaacagaca atgggccagg ttctgtagta aag 413

<210> 408  
<211> 183  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(183)  
<223> n = A,T,C or G

<400> 408

```

ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tncttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttcctggcta cccatgtact 180
ntt                                     183

```

```

<210> 409
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 409
cccacgcatg ataagctctt tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtgggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggccttatgc                                     250

```

```

<210> 410
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120
cccagggacc ttggaaacag ttggcactgt aagggtgctt ctcccccaaga cacatcctaa 180
aagggtgttg aatggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tentgc                                     306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaagtgc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
cttctctcaa ggngaggcaa a                                     261

```

```

<210> 412

```



<211> 241  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(241)  
<223> n = A,T,C or G

<400> 412  
gttcaatggt acctgacatt tctacaacac cccactcacc gatgtattcg ttgccagtg 60  
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgccagc aaatactacg 120  
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180  
ctgggagatt tcaactggga cattgaattc ccaaactacc cangcaatta cccagccaac 240  
a 241

<210> 413  
<211> 231  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(231)  
<223> n = A,T,C or G

<400> 413  
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60  
ctcatccaag tttctagtac cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120  
aagtttactc tcctcatttg gaacctaaaa actctcttct tcctgggtct gagggctcca 180  
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t 231

<210> 414  
<211> 234  
<212> DNA  
<213> Homo sapiens

<400> 414  
actgtccatg aagcactgag cagaagctgg aggcacaacg caccagacac tcacagcaag 60  
gatggagctg aaaacataac ccactctgtc ctggaggcac tgggaagcct agagaaggct 120  
gtgagccaag gagggagggt cttccttttg catgggatgg ggatgaagta aggagagggg 180  
ctggaccccc tggaagctga ttcactatgg ggggaggtgt attgaagtcc tcca 234

<210> 415  
<211> 217  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(217)  
<223> n = A,T,C or G

<400> 415  
gcataggatt aagactgagt atcttttcta cattctttta acttttctaag gggcacttct 60  
caaaacacag accaggtagc aaatctccac tgctotaagg ntctcaccac cactttctca 120  
cacctagcaa tagtagaatt cagtctact tctgaggcca gaagaatggg tcagaaaaat 180  
antggattat aaaaaataac aattaagaaa aataatc 217

<210> 416  
<211> 213  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(213)  
<223> n = A,T,C or G

<400> 416  
atgcatatnt aaagganact gcctcgcttt tagaagacat ctggngctgct ctctgcatga 60  
ggcacagcag taaagctctt tgattcccag aatcaagaac tctccccttc agactattac 120  
cgaatgcaag gtggttaatt gaaggccact aattgatgct caaatagaag gatattgact 180  
atattggaac agatggagtc tctactacaa aag 213

<210> 417  
<211> 303  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(303)  
<223> n = A,T,C or G

<400> 417  
nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60  
gtgggaaagg ctttactctg agttcaaadc ttcaagccca tcagagagtc cacactggag 120  
agaagccata caaatgcaat gagtgtggga agagcttcag gagggtattcc cattatcaag 180  
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt gggaaagggt 240  
tcantcaaag ttcgtatctt caaatccatc ngaaggacca cagtatanan aaacctttta 300  
agt 303

<210> 418  
<211> 328  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(328)  
<223> n = A,T,C or G

<400> 418  
tttttggcgg tgggtggggca gggacggggac angagtctca ctctgttgcc caggctggag 60  
tgcacaggca tgatctcggc tcactacaac cctgcctcc catgtccaag cgattcttgt 120  
gcctcagcct tccctgtagc tagaattaca ggacatgcc accacacca gctagttttt 180  
gtatttttag tagagacagg gtttcacat gttggccagg ctggtctcaa actcctnacc 240  
tcagnggtca ggctggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300  
aaagtgtan gattacaggc cgtgagcc 328

<210> 419  
<211> 389  
<212> DNA  
<213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(389)  
 <223> n = A,T,C or G

<400> 419  
 cctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatatg 60  
 acccctgagc catggactgg agcctgaaag gcagcgtaca ccctgctcct gatcttgctg 120  
 cttgtttcct ctctgtggct ccattcatag cacagtgtgt gcactgaggc ttgtgcaggc 180  
 cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240  
 ccggtttctc agccaccaac ctcaactcgt cccgcaaata gcacatcagt tcttctaccc 300  
 taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctatc agccatcacg 360  
 tggcagccac tnggctgtg tcgacgcgg 389

<210> 420  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<400> 420  
 gttcctccta actcctgcc aaaaacagctc tcctcaacat gagagctgca cccctcctcc 60  
 tggccagggc agcaagcctt agccttggct tcttgtttct gctttttttc tggctagacc 120  
 gaagtgtact agccaaggag ttgaagtgtg tgacttttgt gtttcggcat ggagaccgaa 180  
 gtcccattga cacctttccc actgaccca taaaggaatc ctcatggcca caaggatttg 240  
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300  
 gatatagaaa attccttgat gactcctata aacatgaaca ggtttatatt cgaagcacag 360  
 acgttgaccg gactttgatg aagtgcctatg aaaaacctgg caagcccg 408

<210> 421  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(352)  
 <223> n = A,T,C or G

<400> 421  
 gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60  
 gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120  
 ttcactgaca gaacaggctt tttttgggtc cttcttctcc accacnata acttgcagtc 180  
 ctccctcttg aagattcttt ggcagttgtc tttgtcataa cccacagggt tagaacaaga 240  
 ggtgcaacat gaaatttctg tttcgtagca agtgcattgc tcacaagttg gcangtctgc 300  
 cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctt gg 352

<210> 422  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 422  
 atgccaccat gctggcaatg cagcggggcg tcgaaggcct gcatatccag cccaagctgg 60  
 cgatgatcga cggcaaccgt tgcccgaagt tgccgatgcc agccgaagcg gtggtcaagg 120  
 gcgatagcaa ggtgccggcg atcgcggcgg cgtcaatcct ggccaagggt agccgtgatc 180  
 gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggct 240  
 atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacggcg attcaccgac 300  
 gcttcttccg ccggtacggc tggcctatga aaattat 337

<210> 423  
<211> 310  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(310)  
<223> n = A,T,C or G

<400> 423  
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60  
aggagaatga ggcttggcct gggagccctg tgcctactan aagcncatta gattatccat 120  
tcaactgacag aacaggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180  
tccttcttga agattctttg gcagttgtct ttgtcataac ccacaggtgt anaaacaagg 240  
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300  
tccgagttaa 310

<210> 424  
<211> 370  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(370)  
<223> n = A,T,C or G

<400> 424  
gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60  
ggagaatgag gccttggcctg ggagccctgt gcctactaga agcacattag attatccatt 120  
cactgacaga acaggtcttt tttgggtcct tcttctccac cacgatatac ttgcagtcct 180  
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240  
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300  
cacgaaggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360  
tccgtcgacg 370

<210> 425  
<211> 216  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(216)  
<223> n = A,T,C or G

<400> 425  
aattgctatn ntttattttg ccaactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60  
taacaacnca acatcaaggc aaananaaca ggaatggntg actntgcata aatnggccga 120  
anattatcca ttatnttaag ggttgacttc aggnacagc acacagacaa acatgcccag 180  
gaggnntca ggaccgctcg atgtntntg aggagg 216

<210> 426  
<211> 596  
<212> DNA  
<213> Homo sapiens

<400> 426  
cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60  
tggcagtcag tgatggaagg gtgttctgat cattccgact gccccaggg tcgctggcca 120  
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180  
gctgtccttg tattttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240  
gacatcacgg caacttttaa tgaaatgatt tgaagggcc ttaagaggca cttcccgtta 300  
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360  
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420  
ggtggatggc cttttcagct ttaacccaat ttgcaactgcc ttggaagtgt agccaggaga 480  
atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540  
gtcccgtgg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427  
<211> 107  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(107)  
<223> n = A,T,C or G

<400> 427  
gaagaattca agttagggtt attcaaaggg cttacngaga atcctanacc caggncaccag 60  
cccgggagca gccttanaga gtcctgttt gactgccgg ctcagng 107

<210> 428  
<211> 38  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(38)  
<223> n = A,T,C or G

<400> 428  
gaacttcna anaangactt tattcactat ttacatt 38

<210> 429  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 429  
ctttgctgga cggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60  
attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgccg 120  
atatccacga actcttgaag gactttctga tttatccaca atcaaactcat cggttttcag 180  
tttggatggg ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcgtt 240  
gccttccact tcagttacac ctactcacc atcctctcct gttggttctg tgctgcttca 300  
agatactaag ccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360  
tgatgtgcag ttaaaaaatc tgcccttcta tgatgtcctt gatgttctca tcaagcccac 420  
gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480  
acctcaacaa gttagagaga tatgcatatc cagggatattt ttgccaggtg gtaggagaga 540  
ttat 544

<210> 430

<211> 507  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(507)  
 <223> n = A,T,C or G

<400> 430  
 cttatcncaa tggggctccc aaacttggt gtgcagtga aactccggg gaattttgaa 60  
 gaacactgac acccatcttc caccgcgaca ctctgattta attgggctgc agtgagaaca 120  
 gagcatcaat ttaaaaagct gccagaatg ttntcctggg cagcgttggt atctttgccn 180  
 cttcgtgac tttatgcaat gcatcatgct atttcatacc taatgaggga gttccaggag 240  
 attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300  
 caagaaggag gactgcaagt atatcgtggt ggagaagaag gacccaaaaa agacctgttc 360  
 tgtcagtga tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420  
 cattctcctc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480  
 ttttgagcaa aaaaaaaaaa aaaaaaa 507

<210> 431  
 <211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(392)  
 <223> n = A,T,C or G

<400> 431  
 gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60  
 aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120  
 tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180  
 aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtccctgggt ttccaacaga 240  
 catcattcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300  
 acaaaaagtga tgttgttagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360  
 gcaatgagtc tggcttttac tctgtgttt ct 392

<210> 432  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(387)  
 <223> n = A,T,C or G

<400> 432  
 ggtatcanta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60  
 aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120  
 ngtagtccaa gctctcgga gtccagccac tngaaacat gtcctcttta gattaacctc 180  
 gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240  
 attctgttgc ttctggggca ttctctgng atgcagagga ccaccacaca gatgacagca 300  
 atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgtac aggaccggga 360  
 acaacgtata gaacactgga gtccttt 387

<210> 433  
<211> 281  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(281)  
<223> n = A,T,C or G

<400> 433  
ttcaactagc anagaanact gcttcagggn gtgtaaaatg aaaggcttcc acgcagttat 60  
ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120  
caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180  
atcgccgtgg ctattcctcn ttgntattac accagnagg ntctctgtnt gccactggt 240  
tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281

<210> 434  
<211> 484  
<212> DNA  
<213> Homo sapiens

<400> 434  
ttttaaaata agcatttagt gctcagtcct tactgagtac tctttctctc ccctcctctg 60  
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatattg 120  
tgttgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtgaa tccatcttgc 180  
tttttcccca ttggaactag tcattaacct atctctgaac tggtagaaaa acatctgaag 240  
agctagtcta tcagcatctg acaggtgaat tggatggttc tcagaacctt ttcaccaga 300  
cagcctggtt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaacct 360  
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420  
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480  
ttta 484

<210> 435  
<211> 424  
<212> DNA  
<213> Homo sapiens

<400> 435  
gcgccgctca gagcagggtca ctttctgect tccaogtctt ccttcaagga agccccatgt 60  
gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120  
cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180  
atgggcctgt ggggaggggg caagatagat gagggggagc ggcatgggtc ggggtgacct 240  
cttgagagaga ggaaaaaggc cacaagaggg gctgccaccg ccaactaacg agatggccct 300  
ggtagagacc tttgggggtc tggaacctct ggactcccca tgctctaact cccacactct 360  
gctatcagaa acttaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420  
aaac 424

<210> 436  
<211> 667  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(667)  
<223> n = A,T,C or G

<400> 436  
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60  
tcctggccat gtaatcctga aagttttccc aaggtagcta taaaatcctt ataagggtgc 120  
agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180  
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240  
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacaggggt 300  
gccaggtttg tcatagcact catcaaagtc cgggtcaact ctgtgcttcg aatataaacc 360  
tgttcatgtt tataggactc attcaagaat tttctatatc tctttcttat atactctcca 420  
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480  
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcgggtctcc atgccgaaac 540  
accaaagtca caaacttcaa ctccctgggt agtacacttc ggtctagcca gaaaaaagg 600  
agaaacaaga agccaagggt aaggcttgct gccctgccag gaggaggggt gcagctctca 660  
tgttgag 667

<210> 437  
<211> 693  
<212> DNA  
<213> Homo sapiens

<400> 437  
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60  
acacagccag gtaaggaaaag ctggattggc acactaggac tctaccatac cgggttttgt 120  
taaagctcag gttaggaggc tgataagctt ggaaggaact tcagacagct ttttcagatc 180  
ataaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240  
aggtaactct ctattttcac cctccttgct tctactctct ggcagtcaga cctgtggggg 300  
gccatggggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360  
catttctcca ggttacccta ggtgtcacta ttgggggggac agccagcatc tttagctttc 420  
atttgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480  
acacctaact gctgttgctc ctgaggtggt gaaagacaga tatagagctt acagtattta 540  
tcctatttct aggcactgag ggctgtgggg taccttgttg tgccaaaaca gatcctgttt 600  
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660  
ctgcatcatg tgctctcttg gctgaaaatg acc 693

<210> 438  
<211> 360  
<212> DNA  
<213> Homo sapiens

<400> 438  
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60  
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120  
atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180  
actgcaagta tatctgggtg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240  
gataatctaa tgtgcttcta gtaggcacag ggctoccagg ccaggcctca ttctcctctg 300  
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

<210> 439  
<211> 431  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(431)  
<223> n = A,T,C or G

<400> 439  
gttcctnnta actcctgcc aagacagctc tcctcaacat gagagctgca cccctcctcc 60



```

tggccagggc agcaagcctt agccttggct tcttgtttct gcttttttct tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtccata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag t                                     431

```

<210> 440  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcccttgg tcttggaaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcacttga tgagaacaag cta                               523

```

<210> 441  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

```

<400> 441
gttcctccta actcctgcc aaaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgtttct gcttttttct tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtccata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
aatttagtag                                     430

```

<210> 442  
 <211> 362  
 <212> DNA  
 <213> Homo sapiens

```

<400> 442
ctaaggaatt agtagtggtc ccatacattg tttggagtgt gctattctaa aagattttga 60
tttcctggaa tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttcacttct gatacttgta aattaatctt ttattgcact tgttttgacc attagctat 180
atgtttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatttt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc                                     362

```

<210> 443  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(624)  
<223> n = A,T,C or G

<400> 443  
ttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60  
ttgaaagaat taaattcaga ggaggggaga gaaagagtac tcagtaggga ctgagcacta 120  
aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180  
tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240  
cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg cttcctgttt 300  
tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaatgaac 360  
taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtac 420  
atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaata 480  
agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaaga 540  
ngatgcttgt gctgggtcca aatotttggtc tactatgacc ttggccaaat tatttaaact 600  
ttgtccctat ctgctaaaca gatc 624

<210> 444  
<211> 425  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(425)  
<223> n = A,T,C or G

<400> 444  
gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60  
gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120  
ttcattgcta tagcataaca caaaatttgc ataagtgttg gtcagcaaat ccttgaatgc 180  
tgcttaaatgt gagagggttg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240  
gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300  
cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacctctg gaagagccaa 360  
ggaggcacca gggcataagt gagtagactt atggtcgacg cggccgcgaa tttagtagta 420  
gtaga 425

<210> 445  
<211> 414  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(414)  
<223> n = A,T,C or G

<400> 445  
catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60  
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120  
tgaaattctt tgcattgtggc agattatttg atgtagtctt ctttaactag catataaatc 180  
tggtgtgttt cagataaatg aacagcaaaa tgtgtgtgaa ttaccatttg gaacattgtg 240  
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300  
ggatttttat aatcctactc acaaatgact aggtctctcc tcttgtattt tgaagcagtg 360  
tgggtgctgg attgataaaa aaaaaaaaag tcgacgcggc cgcgaattta gtag 414

<210> 446

<211> 631  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(631)  
<223> n = A,T,C or G

<400> 446  
acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60  
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcaggtgtg 120  
atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180  
ccggtcctgt acgatttcag tatgtcttaa tcgcagctgt gattggaaca attcagattg 240  
ctgtcatctg tgtggtggtc ctctgcatca caagggccaa actttaggta atagcattgg 300  
actgagattt gtaaaactttc caaccttcca ggaaatgccc cagaagcaac agaattcaca 360  
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420  
taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttgga ctacacaata 480  
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttgtggt 540  
aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatttga 600  
aatagtatac attgtcttga tgttttttct g 631

<210> 447  
<211> 585  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(585)  
<223> n = A,T,C or G

<400> 447  
ccttgaggaaa antntcacaa tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60  
cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120  
gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180  
agttcctgaa aggcaggtat agcaactgat cttcagaaag aggaactgtg tgcaccggga 240  
tgggctgcca gagtaggata ggattccaga tgctgacacc ttctggggga aacagggctg 300  
ccaggtttgt catagcactc atcaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360  
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420  
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480  
attcctttat ggggtcagtg ggaaagggtg caatgggact tcggtctcca tgccgaaaca 540  
ccaaagtcac aaacttcaac tccttggcta gtacacttgc gtcta 585

<210> 448  
<211> 93  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(93)  
<223> n = A,T,C or G

<400> 448  
tgctcgtggg tcattctgan nnccgaactg acctgccag ccctgccgan gggccnccat 60  
ggctccctag tgccctggag agganggggc tag 93

<210> 449  
<211> 706  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(706)  
<223> n = A,T,C or G

<400> 449  
ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60  
ttctgancac cgaactgacc atgccagccc tgccgatggc cctccatggc tccctagtgc 120  
cctggagagg aggtgtctag tcagagagta gtcctggaag gtggcctctg ngaggagcca 180  
cggggacagc atcctgcaga tggtcgggag cgccccattc gccattcagg ctgcgcaact 240  
gttggaagg gcgacgggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300  
gtgctgcaag gcgattaagt tgggtaacgc caggggtttc ccagtcncga cgttgtaaaa 360  
cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcattgcacg 420  
cgtaagtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480  
cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540  
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600  
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660  
gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706

<210> 450  
<211> 493  
<212> DNA  
<213> Homo sapiens

<400> 450  
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60  
acagttttta aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120  
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180  
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240  
caagtccagt agtgaaatgg gtggaattaa actcaaatta atcctgccag ctgaaacgca 300  
agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360  
tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420  
tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480  
gcgaatttag tag 493

<210> 451  
<211> 501  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(501)  
<223> n = A,T,C or G

<400> 451  
gggcgcgtcc cattcgccat tcaggctgag caactgttgg gaagggcgat cgggtcggggc 60  
ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat taagttgggt 120  
aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180  
tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240  
gcggccgcct actactacta aattcgcggc cgcgtcgacg tgggaccnc actgagagag 300  
tggagagtga catgtgctgg acnctgtcca tgaagcactg agcagaagct ggaggcacia 360  
cgcncacagc actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420

gttgcaatga gctgagatca ggccnctgcn ccccagcatg gatgacagag tgaaactcca 480  
tcttaaaaaa aaaaaaaaaa a 501

<210> 452  
<211> 51  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(51)  
<223> n = A,T,C or G

<400> 452  
agacggtttc accnttaciaa cnccttttag gatgggnntt ggggagcaag c 51

<210> 453  
<211> 317  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(317)  
<223> n = A,T,C or G

<400> 453  
tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60  
acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatgggtc tcagaacct 120  
ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180  
taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240  
cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300  
taccatgtc tttatta 317

<210> 454  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 454  
ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60  
taagccacgc cacgctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120  
agaagaccaa attcttctgc atcccagctt gcaaacaataa ttgttcttct aggtctccac 180  
ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231

<210> 455  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 455  
taccaaagag ggcataataa tcagtctcac agtaggggtc accatcctcc aagtgaaaaa 60  
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120  
gtttcaacgc attgatgact tctccaagga tcttcttttg gcatcgacca cattcagggg 180  
caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a 231

<210> 456  
<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

```
ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcggt attattcttg gagaaaccct gtctgtttac tgtaaccctt 120
tgcactcaaa ttcctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt ccctgactga cattgccaaag t 231
```

<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 457

```
cgaggtaccc aggggtctga aaatctctnn ttantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatTTTTctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttcctct gaggtgtgcg tggcttttgt g 231
```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

```
aggtctgggt cccccactt cactccct ctactctctc taggactggg ctgggccaaag 60
agaagagggg tgggtaggga agccgttgag acctgaagcc ccacctcta cttccttca 120
acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttcaa 180
ggtcctgggt taggcatttt ggggggccag acccaggag aagaagattc t 231
```

<210> 459

<211> 231

<212> DNA

<213> Homo sapiens

<400> 459

```
ggtaccgagg ctgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
ccttcgcgaa acctgtggtg gccaccagt cctaacggga caggacagag agacagagca 120
gccctgcaact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231
```

<210> 460

<211> 231

<212> DNA

<213> Homo sapiens

<400> 460

```
gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60
cctatcacc cttcttggg ggctgcttct tcacagtgat catgaagcct agcagcaaat 120
cccacctccc cacacgcaca cggccagcct ggagcccaca gaagggtcct cctgcagcca 180
gtggagcttg gtccagcctc cagtccaccc ctaccaggct taaggataga a 231
```

<210> 461  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 461  
cgagggtttga gaagctctaa tgtgcagggg agccgagaag caggcggcct agggagggtc 60  
gcgtgtgctc cagaagagtg tgtgcatgcc agaggggaaa caggcgcctg tgtgtcctgg 120  
gtggggttca gtgaggagtg ggaaattggt tcagcagaac caagccgttg ggtgaataag 180  
agggggattc catggcactg atagagccct atagtttcag agctgggaat t 231

<210> 462  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 462  
aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60  
gggtcatgca agtataaaaa ttaaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120  
gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180  
tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 463  
tactccagcc tgggtgacaga gcgagaccct atcaccgccc cccacccccc caaaaaaaaa 60  
actgagtaga cagggtgtcct cttggcatgg taagtcttaa gtcccctccc agatctgtga 120  
catttgacag gtgtcttttc ctctggacct cgggtgtccc atctgagtga gaaaaggcag 180  
tggggagggtg gatcttccag tcgaagcggc atagaagccc gtgtgaaaag c 231

<210> 464  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 464  
gtactctaag attttatcta agttgccttt tctgggtggg aaagtttaac cttagtgaact 60  
aaggacatca catatgaaga atgtttaagt tggagggtggc aacgtgaatt gcaaacaggg 120  
cctgtctcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180  
ggtgccagcg caccagctag atgctctgta acttctaggc cccattttcc c 231

<210> 465  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 465  
catgttggtg tagctgtggt aatgctggct gcattctcaga cagggttaac ttcagtcctt 60  
gtggcaaat agcaacaaat tctgacatca tatttatggt ttctgtatct ttgttgatga 120  
aggatggcac aatttttgct tgtgttcata atatactcag attagtctcag ctccatcaga 180  
taaaactggag acatgcagga cattagggta gtgttgtagc tctggtaatg a 231

<210> 466  
<211> 231  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 466

```

caggtagctc tttccattgg atactgtgct agcaagcatg ctctccgggg tttttttaat 60
ggccttcgaa cagaacttgc cacataacca ggtataatag tttctaacat ttgccagga 120
cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180
aataatggag accagtccca caagatgaca accagtcgtt gtgtgcggct g          231

```

&lt;210&gt; 467

&lt;211&gt; 311

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

```

gtacaccctg gcacagtcca atctgaactg gttcggcact catctttcat gagatggatg 60
tgggtgcttt tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac 120
tgtgccttaa cagaaggctt tgagattcta agtgggaatc atttcagtga ctgtcatgtg 180
gcatgggtct ctgcccaagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240
tgtgacctgc tgggcctccc aatagactaa caggcagtg cagttggacc caagagaaga 300
ctgcagcaga c          311

```

&lt;210&gt; 468

&lt;211&gt; 3112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 468

```

cattgtgttg ggagaaaaac agaggggaga tttgtgtggc tgcagccgag ggagaccagg 60
aagatctgca tgggtgggaag gacctgatga tacagagttt gataggagac aattaaaggc 120
tgggaaggcac tggatgcctg atgatgaagt ggactttcaa actggggcac tactgaaacg 180
atgggatggc cagagacaca ggagatgagt tggagcaagc tcaataacaa agtggttcaa 240
cgaggacttg gaattgcatg gagctggagc tgaagtttag cccaattgtt tactagttag 300
gtgaatgtgg atgattggat gatcatttct catctctgag cctcaggttc cccatccata 360
aaatgggata cacagtatga tctataaagt gggatatagt atgatctact tcactgggtt 420
atttgaagga tgaattgaga taatttatct caggtgccta gaacaatgcc cagattagta 480
catttgggtg aactgagaaa tggcataaca ccaaatttaa tatatgtcag atgttactat 540
gattatcatt caatctcata gttttgtcat ggcccaattt atcctcactt gtgcctcaac 600
aaattgaact gttaacaaag gaatctctgg tcctgggtaa tggctgagca ccaactgagc 660
tttccattcc agttggcttc ttgggtttgc tagctgcac actagtcac ttaataaat 720
gaagttttaa cattctcca gtgattttt tatctcacct ttgaagatac tatgttatgt 780
gattaaataa agaacttgag aagaacaggt ttcattaaac ataaaaatcaa tgtagacgca 840
aattttcttg atgggcaata cttatgttca caggaaatgc tttaaaatat gcagaagata 900
attaaatggc aatggacaaa gtgaaaaact tagacttttt tttttttttt ggaagtatct 960
ggatgttcct tagtcactta aaggagaact gaaaaatagc agtgagttcc acataatcca 1020
acctgtgaga ttaaggctct ttgtggggaa ggacaaagat ctgtaaatct acagtttctc 1080
tccaaagcca acgtcgaatt ttgaaacata tcaaagctct tcttcaagac aaataatcta 1140
tagtacatct ttcttatggg atgcacttat gaaaaatggg ggctgtcaac atctagtcac 1200
tttagctctc aaaatgggtc attttaagag aaagtttttag aatctcatat ttattcctgt 1260
ggaaggacag cattgtggct tggactttat aaggctctta ttcaactaaa taggtgagaa 1320
ataagaaagg ctgctgactt taccatctga ggccacacat ctgctgaaat ggagataaatt 1380
aacatcacta gaaacagcaa gatgacaata taatgtctaa gtatgacat gtttttgcac 1440
atttccagcc cctttaaata tccacacaca caggaagcac aaaaggaagc acagagatcc 1500
ctggggagaaa tgcctggccg ccatcttggg tcatcgatga gcctcgccct gtgcctggct 1560
ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg ttccttaaag gatgggcagg 1620
aaaacagatc ctgttgtgga tatttatttg aacgggatta cagatttgaa atgaagtcac 1680
aaagtgagca ttaccaatga gaggaaaaa gacgagaaaa tcttgatggc ttcacaagac 1740
atgcaacaaa caaatggaa tactgtgatg acatgaggca gccaaagctg ggaggagata 1800
accacggggc agagggtcag gattctggcc ctgctgccta aactgtgcgt tcataaccaa 1860

```



```

atcatttcat atttctaacc ctcaaaacaa agctgttgta atatctgac tctacggttc 1920
cttctgggcc caacattctc catatatcca gccacactca tttttaatat ttagttccca 1980
gatctgtact gtgaccttct tacactgtag aataacatta ctcatittgt tcaaaagacc 2040
ttcgtgttgc tgcctaatat gtagctgact gtttttcta aggagtgttc tggcccaggg 2100
gatctgtgaa caggctggga agcatctcaa gatctttcca gggttatact tactagcaca 2160
cagcatgac attacggagt gaattatota atcaacatca tcctcagtgt ctttgcccat 2220
actgaaattc atttccact tttgtgcccc ttctcaagac ctcaaaatgt cattccatta 2280
atatcacagg attaactttt ttttttaacc tggagaat caatgttaca tgcagctatg 2340
ggaatttaac tacatatattt gttttccagt gcaaaagatga ctaagtcctt tatccctccc 2400
ctttgtttga ttttttttcc agtataaagt taaaatgctt agccttgtag tgaggctgta 2460
tacagccaca gcctctcccc atccctccag ccttatctgt catcaccatc aaccctccc 2520
atgcacctaa acaaaatcta acttgaatt ccttgaacat gtcaggcata cattattcct 2580
tctgcctgag aagctcttcc ttgtctctta aatctagaat gatgtaaagt tttgaataag 2640
ttgactatct tacttcatgc aaagaaggga cacatatgag attcatcatc acatgagaca 2700
gcaataacta aaagtgtaat ttgattataa gagtttagat aaatatatga aatgcaagag 2760
ccacagaggg aatgtttatg gggcacgttt gtaagcctgg gatgtgaagc aaaggcaggg 2820
aacctcatag tatcttatat aatatacttc atttctctat ctctatcaca atatccaaca 2880
agcttttcac agaattcatg cagtgc aaat ccccaaagg aacctttatc catttcatgg 2940
tgagtgcgct ttagaatttt ggcaaatcat actggtcact tatctcaact ttgagatgtg 3000
tttgtccttg tagttaattg aaagaaatag ggcactcttg tgagccactt tagggttcac 3060
tcctggcaat aaagaattta caaagagcaa aaaaaaaaaa aaaaaaaaaa aa 3112

```

&lt;210&gt; 469

&lt;211&gt; 2229

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 469

```

agctctttgt aaattcttta ttgccaggag tgaaccctaa agtggctcac aagagtgcc 60
tatttctttc aattaactac aaggacaaac acatctcaaa gttgagataa gtgaccagta 120
tgatttgcca aaattctaaa gcgcactcac catgaaatgg ataaagggtta cctttgggga 180
tttgactgac atgaattctg tgaagagctt gttggatatt gtgatagaga tagagaaatg 240
aagtatatta tataagatac tatgagggtc cctgcctttg cttcacatcc caggcttaca 300
aacgtgcccc ataaacattc cctctgtggc tcttgcatct catatattta tctaaactct 360
tataatcaaa tacactttta gtatttgctg tctcatgtga tgatgaatct catatgtgtc 420
ccttctttgc atgaagtaag atagtcaact tattcaaaac ttacatcat tctagattta 480
agagacaagg aagagcttct caggcagaag gaataatgta tgctgacat gttcaaggaa 540
ttacaagtta gattttgttt aggtgcatgg gaggggttga tgggtgatgac agataaggct 600
ggagggatgg ggagaggctg tggctgtata cagcctcagt acaaggctaa gcattttaac 660
tttatactgg aaaaaaatc aaacaaaggg gagggataaa ggacttagtc atctttgcac 720
tggaaaacaa aatatgtaat taaattccca tagctgcatg taacattgaa ttcttccagg 780
ttaaaaaaaa agttaatcct gtgatattaa tggaaatgaca ttttgaggtc ttgagaatgg 840
gcacaaaagt gggaaatgaa ttccagtatg ggcaaagaca ctgaggatga tgttgattag 900
ataattcact ccgtaatgat catgctgtgt ctagtaagt ataaccctgg aaagatcttg 960
agatgcttcc cagcctgttc acagatcccc tgggccagaa cactccttag gaaaaacagt 1020
cagctacata ttaggcagca acacgaaggg tctttgaaca aaatgagtaa tgttattcta 1080
cagtgtagaa aggtcacagt acagatctgg gaactaaata ttaaaaatga gtgtggctgg 1140
atatatggag aatgttgggc ccagaaggaa ccgtagagat cagatattac aacagctttg 1200
ttttgagggt tagaaatatg aaatgatttg gttatgaacg cacagtttag gcagcagggc 1260
cagaatcctg accctctgcc ccgtggttat ctctcccca gcttggtctgc ctcattgtcat 1320
cacagtatcc cattttgttt gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt 1380
tttctctca ttggtaatgc tcactttgtg acttcatttc aaatctgtaa tcccgttcaa 1440
ataaatatcc acaacaggat ctgttttctt gccatcctt taaggaaacac atcaattcat 1500
tttctaattg ccttccctca caagcgggac caggcacagg gcgaggctca tcgatgaccc 1560
aagatggcgg ccgggcattt ctcccaggga tctctgtgct tccttttgtg cttcctgtgt 1620
gtgtggatat ttaaaggggc tggaaatgtg caaaacatg tcaactacta gacattatat 1680
tgtcatcttg ctgtttctag tgatgttaat tatctccatt tcagcagatg tgtggcctca 1740
gatggtaaag tcagcagcct ttcttatttc tcacctggaa atacatacga ccatttgagg 1800

```

```

agacaaatgg caaggtgtca gcataccctg aacttgagtt gagagctaca cacaatatta 1860
ttggttttccg agcatcacia acaccctctc tgtttcttca ctgggcacag aattttaata 1920
cttattttcag tgggctgttg gcaggaacaa atgaagcaat ctacataaag tcaactagtgc 1980
agtgcctgac acacaccatt ctcttgaggt cccctctaga gatcccacag gtcatatgac 2040
ttcttgggga gcagtggctc acacctgtaa tcccagcact ttgggaggct gaggcagggt 2100
ggtcacctga ggtcaggagt tcaagaccag cctggccaat atgggtgaaac cccatctcta 2160
ctaaaaatag aaaaattagc tgggcgtgct ggtgcatgcc tgtaatccca gcccacacac 2220
aatggaatt 2229

```

&lt;210&gt; 470

&lt;211&gt; 2426

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 470

```

gtaaattctt tattgccagg agtgaaccct aaagtggctc acaagagtgc cctatttctt 60
tcaattaact acaaggacaa acacatctca aagttgagat aagtgaccag tatgatttgc 120
caaaattcta aagcgactc accatgaaat ggataaagg tacccttggg gatttgcact 180
gcatgaattc tgtgaaaagc ttgttggata ttgtgataga gatagagaaa tgaagtatat 240
tatataagat actatgaggt tccctgcctt tgcttcacat cccaggctta caaacgtgcc 300
ccataaacat tccctctgtg gctcttgcac ttcatatatt tatctaaact cttataatca 360
aattacactt ttagtatttg ctgtctcatg tgatgatgaa tctcatatgt gtcccttctt 420
tgcatggaag aagatagtc aactttacat cattctagat ttaagagaca 480
aggaagagct tctcaggcag aaggaataat gtatgcctga catgttcaag gaattacaag 540
ttagattttg tttagggtgca tgggaggggt tgatgggtgat gacagataag gctggaggga 600
tggggagagg ctgtggctgt atacagcctc agtacaaggc taagcatttt aactttatac 660
tggaaaaaaa atcaaacaaa ggggagggat aaaggactta gtcattcttg cactggaaaa 720
caaaatatgt aattaaattc ccatagctgc atgtaacatt gaattcttcc aggttaaaaa 780
aaaaagttaa tccgtgtgata ttaatggaat gacattttga ggtcttgaga atgggcacaa 840
aagttggaaa tgaatttcag tatgggcaaa gacactgagg atgatgttga ttagataatt 900
cactccgtaa tgatcatgct gtgtgctagt aagtataacc ctggaaagat cttgagatgc 960
ttcccagcct gttcacagat cccctgggcc agaactctc ttaggaaaaa cagtcagcta 1020
catattaggc agcaacacga agggctcttg aacaaaatga gtaatgttat tctacagtgt 1080
agaaaggcca cagtacagat ctgggaacta aatattaaaa atgagtgttg ctggatatat 1140
ggagaatgtt gggcccagaa ggaaccgtag agatcagata ttacaacagc tttgttttga 1200
gggttagaaa tatgaaatga tttggttatg aacgcacagt ttaggcagca gggccagaa 1260
cctgaccctc tgcccgtgg tttctctcct cccagcttgg ctgcctcatg tcatcacagt 1320
attccatttt gtttgttgca tgtcttgtga agccatcaag attttctcgt ctgttttcct 1380
ctcattggta atgtcactt tgtgacttca tttcaaactc gtaatcccgt tcaaataaat 1440
atccacaaca ggtctgttt tccctgccat cctttaagga acacatcaat tcattttcta 1500
atgtccttcc ctcaacagc ggaccaggca cagggcgagg ctcatcgatg acccaagatg 1560
gcccgcgggc atttctccca gggatctctg tgcttccttt tgtgcttctt gtgtgtgtgg 1620
atatttaaag gggctggaat tgtgcaaaaa catgtcacta cttagacatt atattgtcat 1680
cttgctgttt ctagtgtgt taattatctc catttcagca gatgtgtggc ctcatgtgtt 1740
aaagtcaagc gcctttctta tttctcactt ggaataacat acgaccattt gaggagacaa 1800
atggcaaggc gtcagcatac cctgaacttg agttgagagc tacacacaaat attattgggt 1860
tccgagcatc acaaacaccc tctctgtttc ttcactgggc acagaatttt aatacttatt 1920
tcagtgggct gttggcagga acaaatgaag caatctacat aaagtcacta gtgcagtgcc 1980
tgacacacac cattctcttg aggtcccctc tagagatccc acaggtcata tgacttcttg 2040
gggagcagtg gctcacacct gtaatcccag cactttggga ggctgaggca ggtgggtcac 2100
ctgaggtcag gagttcaaga ccagcctggc caatctggtg aaaccccatc tctactaaaa 2160
atacaaaaaa tagctgggag tgctgtgtga tgcctgtaat cccagctact tgggaggctg 2220
aggcaggaga attgctggaa catgggaggg ggaggttgca gtgagctgta attgtgccat 2280
tgcactcgaa cctgggagac agagtggaaac tctgtttcca aaaaacaaac aaacaaaaaa 2340
ggcatagtca gatacaacgt ggggtgggatg tgtaaataga agcaggatat aaagggcagt 2400
gggtgacggg tttgcccac acaatg 2426

```

&lt;210&gt; 471

<211> 812  
<212> DNA  
<213> Homo sapiens

<400> 471  
gaacaaaatg agtaatgtta ttctacagt tagaaaggtc acagtacaga tctgggaact 60  
aaatattaaa aatgagtgtg gctggatata tggagaatgt tgggccccaga aggaaccgta 120  
gagatcagat attacaacag ctttgttttg agggtagaa atatgaaatg atttggttat 180  
gaacgcacag tttaggcagc agggccagaa tcctgaccct ctgccccgtg gttatctcct 240  
ccccagcttg gctgcctcat gtcacacag tattccattt tgtttgttg atgtcttggt 300  
aagccatcaa gattttctcg tctgttttcc tctcattggt aatgctcact ttgtgacttc 360  
atttcaaatc tgaatcccg ttcaataaa tatccacaac aggatctgtt ttctgcccc 420  
tcctttaagg aacacatcaa ttcattttct aatgtccttc cctcacaagc gggaccaggc 480  
acagggcgag gctcatcgat gaccaagat ggcggccggg catttctccc agggatctct 540  
gtgcttcctt ttgtgcttcc tgtgtgtgtg gatattttaa ggggctggaa atgtgcaaaa 600  
acatgtcact acttagacat tatattgtca tcttgctgtt tctagtgtg ttaattatct 660  
ccatttcagc agatgtgtgg cctcagatgg taaagtcagc agcctttctt atttctcacc 720  
tctgtatcat caggctcctc ccaccatgca gatcttcctg gtctccctcg gctgcagcca 780  
cacaaatctc ccctctgttt ttctgatgcc ag 812

<210> 472  
<211> 515  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(515)  
<223> n = A,T,C or G

<400> 472  
acgggagactt attttctgat attgtctgca tatgtatgtt ttaagagtc tggaaatagt 60  
cttatgactt tcctatcatg cttattaata aataatacag ccagagaag atgaaaatgg 120  
gttcagaat tatttggtcct tgcagcccg tgaatctcag caagaggaa caccaactga 180  
caatcaggat attgaacctg gacaagagag agaaggaaca cctccgatcg aagaacgtaa 240  
agtagaagg gattgccagg aaatggatct ggaaaagact cggagtggag gtggagatgg 300  
ctctgatga aaagagaaga ctccacctaa tcctaagcat gctaagacta aagaagcagg 360  
agatgggcag ccataagtta aaaagaagac aagctgaagc tacacacatg gctgatgtca 420  
cattgaaaat gtgactgaaa atttgaaaat tctctcaata aagtttgagt tttctctgaa 480  
gaaaaaaaaa naaaaaaaaa aaanaaaan aaaaa 515

<210> 473  
<211> 5829  
<212> DNA  
<213> Homo sapiens

<400> 473  
cgcattgccgg ggaagcccaa gctggctcga agagccacca gccacctgtg caagggtggg 60  
cctggaccag ttggaccagc caccaagctc acctactcaa ggaagcaggg atggccagg 120  
tgcaacagcc tgagtggctg ccacctgata gctgatggag cagaggcctg aggaaaatca 180  
gatggcacat ttagctcttt aatggatctt aagttaattt ttctataaag cacatggcac 240  
cagtcctatgc ctccagactc gtatggcact gcggaccaca gcaggccgag ttcccaggat 300  
tgccatccag gggggccttc ttagccctg gccagacctt gcagggtgg ctgggtgctc 360  
tttgagcgag ctccggcctcc ctggcatgca caggccccag gtactgacac gctgctctga 420  
gtgagcttgt cctgccttgg ctgccacctt actgctgatg gagcagcggc cttaggaaaa 480  
gcaaattggcg ctgtagccca actttagggt agaagaagat gtaccatgtc cggccgctag 540  
ttggtgactg gtgcacctgc tcctggcgta cccttcgaga ggtgggtggg tgctctttgg 600  
ccagcttggc cttgcctggc atgcacaagc ctcatgtcaa caactgtcct acaaatggag 660

```

acacagagag gaaacaagca gcgggctcag gagcaggggtg tgtgctgcct ttggggctcc 720
agtccatgcc tcgggtcgta tgggtactgca ggcttcttgg ttgccaagag gcggaccaca 780
ggccttcttg aggaggactt tacgttcaag tgcagaaagc agccaaaatt accatccatg 840
agactaagcc ttctgtggcc ctggcgagac ttaaaatttg tgccaaggca ggacaagctc 900
actcggagca gcgtgtcagt agctggggcc tatgcatgcc gggcagggcc gggtgtggctg 960
aaggagcaac cagccacctc tgcaagggtg cgctagtgc aggcggagca tccaccacct 1020
caccgctcg aggaagtggg gatggccagg ttcccacagc ctgagtgtct gccaccttat 1080
tgctgatgga gcagaggcct taagaaaagc agatggcact gtggccctac ctttaggggtg 1140
gaagaagtga tgtacatgtc cggacgctaa ttggtgactg gtacaccggc tcctgtctaca 1200
cctttgcaga ggtggctggg tgctctttga gccagcttgt ccttgcccgg catgcacaag 1260
tttcagtgca acaactttgc cacaatgga gccatataga ggaaacaaga agcaggttca 1320
ggagaagggg gtaccctgcc tttggggctc cagtccatgc ctgaggtgtc acatggcact 1380
gcgggcttct tgggtgccag gaggcggacc acaggccatc ttggggagga ctttgtgttc 1440
aagtgcagaa atagggcagg attgccatcc agggggacct tctatagccc tggccaaacc 1500
ttgcaggggg gtctgggtgc tctttgagcc ggcttggcct ccctggcatg cacgggcccc 1560
aggtgtggc acgtgtctcc gagtgtgctt gtctgcctt ggctgccacc tctgcggggg 1620
tgcgtctgga ggggggtggac cggccaccaa ccttaccag tcaaggaagt ggatggccat 1680
gttcccacag cctgagtggc tgccacctga tggctgatgg agcaaaggcc ttaggaaaag 1740
cagatggccc ttggccctac ctttttgtta gaagaactga tgttccatgt cctgcagcga 1800
gtgaggttg tggctgtgcc ccagctcct ggcgccctt cgagaggtg actggttgtc 1860
ctttgggccc tcttggcctt gccagcatg cacaagcctc agtgctacta ctgtgtctaca 1920
aatggagcca tatagggaa acgagcagcc atctcaggag caaggtgtat gctgcctttg 1980
ggggctccag tccttgctc aaggtctta tgtcactgtg ggcttcttg ttgtcaagag 2040
gcagaccata ggccgtcttg agagggactt tatgttcaag tgcagaaagc agccaggatt 2100
gccaccctcg ggactctgcc ttctgtggcc ctggccaaac ttagaatttg gccgtagaca 2160
ggacaggctc acttgagta gcgtgtccgt agctggggtc tgtgcatgcc gggcaaggcc 2220
gggctggctc ggggagcaac cagccacctc tgcgggggtg cgctggagc aggtggagca 2280
gccaccagct caccactcc aggaagccgg ggtagccagg ttcccaaggc ctgagtgggt 2340
gccacctaat ggctgaagaa acagaggcct tgggaaaacc agatggcact gtggccctac 2400
ctttatggta gaagagctga tttagcctga ctggcagcgt gtggggttg ttggtggctc 2460
gcctgtgct ggcgcatccg tgcaaggatg gctgggtgcc ctttgagcca gcttgcctt 2520
gcccggcatg cgcaagcctc agtgcaacaa ctgtgtgca aatggggcca tatagaggaa 2580
aggagcagct ggctctggag catggtgtgc actcccttg ggccctcagt ccatgtctca 2640
tgggtcgtat gacactcgg gcttgttggg tgccaagagg cagaccacag gtcatttga 2700
ggaggacttt atgttccagt ccagaaagca gccagtggta ccaccaggg gacttgtgtc 2760
tctgtgccca ggccagacgt agaatttgac aaagtcagga cggtctcagt cagagcggcg 2820
tgtcggtccc cggggcctgt gcatgccgg gtggccggg ctggcttggg gagcaagca 2880
ccacctctgt taagggtgtg cctggagcag gtggagcagc caccaacctc acgactgaa 2940
agaagcaggg atggccagg tccaacatcc tgagtggctg ccacctgatg gctgatggag 3000
cagaggcctg aggaaaagca gatggcactg ctttgtagt ctgttctttg tctctcttga 3060
tctttttcag ttaatgtctg ttttatcaga gactaggatt gcaaaccctg ctctttttt 3120
ctttccattt gcttggtaaa tattcctcca tccctttatt ttaagcctat gtgtgtctt 3180
gcacatgaga tgggtctcct gaatacagga caacaatggg tctttactct ttatccaact 3240
tgccagctcg tgtcttttaa ctggggcatt tagccattt acatttaagt ttagtattgt 3300
tacatgtgaa atttatcctg tcatgatgtt gctagctttt ttttttccc attagtttgc 3360
agtttcttta tagtgtcaat ggtctttaca attogatatg tttttgtagt ggctggtagt 3420
ggtttttctt ttctacgttt agtgtctcct tcaggagctc ttgtaacaca agaatttgga 3480
tttatttctt gtaaggtaaa tatgtggatt tatttcttgg gactgtattc tatggccttt 3540
accccaagaa tcattacttt ttaaaatgca attcaaatta gcataaaaca tttacagcct 3600
atggaaaggc ttgtggcatt agaatcctta tttataggat tattttgtgt ttttttgaga 3660
tatggtcttt gtcactgagg cagaagtgcc tggttttgat cataattcac cacagccctg 3720
aactctgag tccaagccat ccttttgct taactctcca accagttgga tctgcaggca 3780
taaggcatca tgcgtggcta attttttcac gtttttttt tttttttgtc gagattatgg 3840
tgtcactgtg ttgctctggc tgatctcaaa tgtttgacct caagggatct ttctgccacg 3900
gcctcctaaa gtgctaggat tatatgcatg atacaccatg cctattgtag agtattacat 3960
tattttcaaa gtcttattgt aagagccatt tattgccttt ggcctaaata actcaatata 4020
atatctctga aacttttttt tgacaaattt tggggcgtga tgatgagaga aggggggtttg 4080
aaactttcta ataagagtta acttagagcc atttaagaaa ggaaaaaaca caaattatca 4140

```

```

gaaaaacaac agtaagatca agtgcaaaag ttctgtggca aagatgatga gagtaaagaa 4200
tatatgtttg tgactcatgg tggcttttac tttgttcttg aatttctgag tacgggttaa 4260
catttaaaga atctacatta tagataacat tttattgcaa gtaaatgtat ttcaaaat 4320
gttattgggt ttgtatgaga ttattctcag cctacttcat tatcaagcta tattatttta 4380
ttaatgtagt tcatgatctt tacagcaaaag ctgaaagctg tatcttcaaa atatgtctat 4440
ttgactaaaa agttattcaa caggagtatt tatctataaa aaaaatacaa caggaatata 4500
aaaaacttga ggataaaaag atgttggaag aagtaaatatt aaatcttaaa aaacatatgg 4560
aaactacaca atggtgaaga cacattgggtg aagtacaaaa atataaattg gatctagaag 4620
aaagggcaat gcaggcaata gaaaaattag tagaaatccc tttaaagggtt agtttgtaaa 4680
atcaggtaag tttattttata atttgctttc atttatttca ctgcaaatta tattttggat 4740
atgtatatat attgtgcttc ctctgcctgt cttacagcaa tttgccttgc agagttctag 4800
gaaaaagggt gcatgtgttt ttactttcaa aatatttaaa tttccatcat tataacaaaa 4860
tcaatttttc agagtaatga ttctcactgt ggagtcattt gattattaag acccgttggc 4920
ataagattac atcctctgac tataaaaaatc ctggaagaaa acctaggaaa tattcgtctg 4980
gacattgcac ttggcaatga atttatgggt aacctgat ccacttccag tcaactatcca 5040
tgagttttta tttccagata catgaaatca tatgagttga aactttcttt tgattgagca 5100
gtttggaac cgtctttttg tagaatctgc aagtggatat ttggaaccct ttgaggccta 5160
tgctgaaaaa agaaatatct tcaactacatg atgaccacca gcagcagctg gggaaaccag 5220
cacctgtgg aattccatac ggtgcataga atacatcctc ccttcagtcg gcttgggtca 5280
acttaggtca tgggccacct ggctgatagc agtttccaca gaaatgcttc aagatgaaag 5340
tggatgaccg gggccacctc caccactgcc ctgtaagacc atgggacaca caggccacca 5400
gttcttttca ttgggtcatc cctgtttaga tgggagaaaa tacacctgcc tcatttttgt 5460
accttctgtg tgaacattcc acggcagact gtcgctaaat gtggatgaag aattgaatga 5520
atgaatgaat atgagagaaa atgaataaat ggttcagatc ctgggctgga aggctgtgta 5580
tgaggatggt gggtagagga gggctctgtt ttcttgctt taagtacta attgtcactt 5640
tggggcagga gcacaggctt tgaatgcaga ccgactggac ttttaattctg gctttactag 5700
ttgtgattgt gtgacctgtt gaaagttact taaacctct gtgcctgttt ctttatctgt 5760
aaaatggaga taataagatg tcaaaggact gtggtgaaga ttaaatgctt taaaaaaaaa 5820
aaaaaaaaa

```

&lt;210&gt; 474

&lt;211&gt; 1594

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 474

```

atttatggat cattaatgcc tcttttagtag tttagagaaa acgtcaaaag aaatggcccc 60
agaataagct tcttgatttg taaaattcta tgtcattggc tcaaatttgt atagtatctc 120
aaaatataaa tatatagaca tctcagataa tatatttgaa atagcaaat cctgttagaa 180
aataatagta ctttaactaga tgagaataac aggtcgccat tatttgaatt gtctcctatt 240
cgtttttcat ttgttgtgtt actcatgttt tacttatgag ggatatatat aacttccact 300
gttttcagaa ttattgtatg cagtcagtat gagaatgcaa ttttaagtttc cttgatgctt 360
tttcacactt ctattactag aaataagaat acagtaatat tggcaaagaa aattgaccag 420
ttcaataaaa ttttttagta aatctgattg aaaataaaca ttgcttatgg ctttcttaca 480
tcaatattgt tatgtcctag acaccttacc tgaaattacg gcttcaaaat tctaattatg 540
tgcaaatgtg taaaatatca atactttatg ttcaagctgg ggcctcttca ggcgtcctgg 600
gctgagagag aaagatgcta gctccgcaag ccggagaggg aacaccgcca cattgttaca 660
cggacacacc gccacgtgga cacatgacca gactcacatg tacagacaca cggagacatt 720
accacatgga gacaccgtca cacagtcaca cggacacact ggcatagtca catggacgga 780
cacacagaca tatggagaaa tcacatggac tcacactacc acagggacac gagacatcac 840
acacggagac atcacacat ggacacactg tcacactacc acagggacac gagacatcac 900
actgtcacat ggacacacca tcacacacat gaacacaccg acacactgcc atatggacac 960
tggcacacac actgccacac tgtcacatgg acacacctcc acaccatcac accaccacac 1020
acactgcctg tggacacaag gacacacaga cactgtcaca cagatacaca aaacactgtc 1080
acacggagac atcaccatgc agatacacca ccactctggg gccgtctgaa ttaccctgct 1140
gggggggacag cagtggcata ctcatgccta agtgactggc tttcacccca gtagtgattg 1200
ccctccatca aactgcccac cccaggttg gggctacccc agccatctt taaaaacag 1260
ggcaagggtga actaatggag tgggtggagg agttggaaga aatccagcg tcagtaccg 1320

```

ggatagaatt cccaaggaac cctctttttg gaggatggtt tccatttctg gaggcgatct 1380  
gccgacaggg tgaatgcctt cttgcttgct ttctggggaa tcagagagag tccgttttgt 1440  
ggtgggaaga gtgtggctgt gtactttgaa ctcctgtaaa ttctctgact catgtccaca 1500  
aaaccaacag ttttgtgaat gtgtctggag gcaagggaa ggcactcag gatctatgtt 1560  
gaaggggaaga ggcctggggc tggagtattc gctt 1594

<210> 475

<211> 2414

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (33)

<223> n=A, T, C or G

<400> 475

cccaacacaa tggctttata agaatgcttc acntgtgaaa aacaaatata aaagtcttct 60  
tgtagattat ttttaaggac aaatctttat tccatgttta atttatttag ctttccctgt 120  
agctaataat tcatgctgaa cacattttta atgctgtaaa tgtagataat gtaatttatg 180  
tatcattaat gcctcttttag tagtttagag aaaacgtcaa aagaaatggc ccagaataa 240  
gcttcttgat ttgtaaaatt ctatgtcatt ggctcaaat tgtatagat ctcaaaatat 300  
aaatataatg acatctcaga taatatattt gaaatagcaa attcctgtta gaaaataata 360  
gtacttaact agatgagaat aacaggctgc cattatttga attgtctcct attcgttttt 420  
catttggtgt gttactcatg ttttacttat ggggggatat atataacttc cgctgttttc 480  
agaagtattg tatgcagtca gtatgagaat gcaatttaag tttccttgat gctttttcac 540  
acttctatta ctagaaataa gaatacagta atattggcaa agaaaattga ccagtccaat 600  
aaaatttttt agtaaactctg attgaaaata aacattgctt atggctttct tacatcaata 660  
ttgttatgtc ctgacacact tatctgaaat tacggcttca aaattctaata tatgtgcaaa 720  
tgtgtaaaat atcaataact tatgttcaag ctggggcctc ttcaggcgtc ctgggctgag 780  
agagaaagat gctagctccg caagccgggg agggacacc gccacattgt tacatggaca 840  
caccgccacg tggacacatg accagactca catgtacaga cacacggaga cattaccaca 900  
tggagacacc gtcacacagt cacacgagca cactggcata gtcacatgga cggacacaca 960  
gacatatgga gaaatcacac tgacacacca ccacactatc acagggacac agacacacgg 1020  
agacatcacc acatggacac actgtcacac taccacaggg acacgagaca tcacactgtc 1080  
acatggacac accatcacac acatgaacac accgacacac tgccatatgg acaactgccac 1140  
acacactgcc acaactgtcac atggacacac ctccatacca tcacaccacc acacacactg 1200  
ccatgtggac acaaggacac acagacactg tcacacagat acacaaaaca ctgtcacacg 1260  
gagacatcac catgcagata caccaccaca tggacatagc accagacact ctgccacaca 1320  
gatacaccac cacacagaaa tgcggacaca ctgccacaca gacaccacca catcgttgcc 1380  
acactttcat gtgtcagctg gcggtgtggg cccacgact ctgggctcta atcgagaaat 1440  
tacttggaca tatagtgaag gcaaaatttt tttttatttt ctgggtaacc aagcgcgact 1500  
ctgtctcaaa aaaagaaaaa aaaagcaata tactgtgtaa tcgttgacag cataattcac 1560  
tattatgtag atcggagagc agaggattot gaatgcatga acatatcatt aacatttcaa 1620  
tacattactc ataattactg atgaactaaa gagaaaccaa gaaattatgg tgatagttat 1680  
attgacctgg agaaatgtag acacaaaaga accgtaagat gagaaatgtg ttaacacagt 1740  
ctataagggc atgcaagaat aaaaataggg gagaaaacag gagagttttt caagagcttt 1800  
ctggatcatg aagtcaactt gtatcggtta atttttaaaa ggtttattta catgcaataa 1860  
actgcacata cttcaattgt acattttggg aattcttggc atttgtagct ctataaaaacc 1920  
agcaacatat taaaatagca aacatatcca ttacctttac caccaaagt ttcttgtgtt 1980  
ttttctactc actttttcct gcctatccc cactctctc cacaggtaac cactgatcca 2040  
cttccagtca ctatccatga gtttttattt ccaaatacat gaaatcatat gaatttctgg 2100  
tttttctgtg ttgagcccaa ggagcaaggg cagaatgagg aacatgatgt ttcttwccga 2160  
cagttactca tgacgtctcc atccaggact gaggggggca tccttctcca tctaggactg 2220  
ggggcatcct tctccatcca gtattggggg tcatccttct ccatccagta ttgggggtca 2280  
tcctctccca tccaggacct gaggggtgtc cttttctgcg cttccttggg tggcagcttt 2340  
tcccttcatg tttatagtra cttaccatta aatcactgtg ccgttttttc ctaaaaataa 2400  
aaaaaaaaaa aaaa 2414

<210> 476  
<211> 3434  
<212> DNA  
<213> Homo sapiens

<400> 476  
ctgtgctgca aatggggcca tatagaggaa aggagcagct ggctctggag catggtgtgc 60  
actccctttg ggccttcagt ccatgtctca tgggtcgtat gacactgagg gcttgttggg 120  
tgccaagagg cagaccacag gtcattctga ggaggacttt atgttccagt ccagaaagca 180  
gccagtggta ccaccaggg gacttgtgct tctgtggccc aggccagacg tagaatttga 240  
caaagtcagg acggtctcag tcagagcagc atgtcgggtcc ccggggcctg tgcattgccg 300  
gcaggggccag gctggcctaa ggagcaagca gccacctctg ttagggggtg gcctggagca 360  
ggtggagcag ccaccaacct cagcactga aagaagcagg gatggccagg ttccaacatc 420  
ctgagtggct gccacctgat ggctgatgga gcagaggcct gagggaaagc agatggcact 480  
gctttgtagt gctgttcttt gtctctcttg atctttttca gttaatgtct gttttatcag 540  
agactaggat tgcaaacctt gctctttttt gctttccatt tgcttggtaa atattcctcc 600  
atccctttat ttttaagcta tgtgtgtctt tgcacatgag atgggtctcc tgaatacagg 660  
acaacaatgg gtctttactc tttatccaac ttgccagtct gtgtctttta actggggcat 720  
ttagccatt tacatttaag ttttagtatt gttacatgtg aaatttatcc tgcattgatg 780  
ttgctagctt tttatttttc ccattagttt gcagtttctt tatagtgtca atggctttta 840  
caattcgata tgtttttgta gtggctggta ctggtttttc ctttctacgt ttagtgtctc 900  
cttcaggagc tcttgtaaca caagaatgtg gatttatttc ttgtaaggta aatatgtgga 960  
tttattctgg gactgtattc tatggccttt accccaagaa tcattacttt ttaaaatgca 1020  
attcaaatta gcataaaaca tttacagcct atggaaaggc ttgtggcatt agaatcctta 1080  
tttataggat tttttgtgt ttttttgaga tatggctctt gtcattcgagg cagaagtgcc 1140  
gtggtttgat cataattcac cacagccctg aactcttgag tccaagccat ccttttgcct 1200  
taatctccca accagttgga tctacaagca taaggcatca tgcgtggcta atttttcac 1260  
gttttttttt tttttgtcga gattatggta tcaactgtgt gctctggctg atctcaaatg 1320  
tttcaccta agggatcttt ctgccacagc ctctaaagt gctaggatta tatgcatgat 1380  
acaccatgcc tattgtagag tattacatta ttttcaaagt cttattgtaa gagccattta 1440  
ttgcctttgg cctaaataac tcaatataat atctctgaaa cttttttttg acaaattttg 1500  
gggctgtatg atgagagaag ggggtttgaa actttcta atagagttaac ttagagccat 1560  
ttaagaaagg aaaaaacaca aattatcaga aaacaacag taagatcaag tgcaaaagtt 1620  
ctgtggcaaa gatgatgaga gtaaaagaata tatgtttgtg actcatggtg gcttttactt 1680  
tgttcttgaa tttctgagta cgggttaaca tttaagaat ctacattata gataacattt 1740  
tattgcaagt aaatgtattt caaaattttg tattgggttt gtatgagatt attctcagcc 1800  
tacttcatta tcaagctata ttattttatt aatgtagttc gatgatctta cagcaaagct 1860  
gaaagctgta tcttcaaaat atgtctattt gactaaaaag ttattcaaca ggagtatta 1920  
tctataaaaa aatacaacag gaatataaaa aacttgagga taaaaagatg ttggaaaaag 1980  
taatattaaa tcttaaaaaa catatggaaa ctacacaatg gtgaagacac attggtgaag 2040  
tacaaaaata taaattgat ctagaagaaa gggcaatgca ggcaatagaa aaattagtag 2100  
aaatcccttt aaaggttagt ttgtaaaatc aggttaagttt atttataatt tgctttcatt 2160  
tatttctactg caaattatat tttggatatg tatatatatt gtgcttctct tgcctgtctt 2220  
acagcaattt gccttgcaga gttctaggaa aaagggtggca tgtgttttta ctttcaaaat 2280  
atttaaattt ccatcattat aacaaaatca atttttcaga gtaatgattc tcaactgtgga 2340  
gtcatttgat tattaagacc cgttggcata agattacatc ctctgactat aaaaatcctg 2400  
gaagaaaacc taggaaatat tcgtctggac attgcaactg gcaatgaatt tatgggcgct 2460  
ttggaatcct gcagatataa taatgataat taaacaaaac actcagagaa actgccaaac 2520  
ctaggatgaa gtatattgtt actgtgcttt gggattaaaa taagtaacta cagtttatag 2580  
aacttttata ctgatacaca gacactaaa agggaagggt tttagatgag aagctctgct 2640  
atgcaatcaa gaatctcagc cactcatttc tgtaggggct gcaggagctc cctgtaaaaga 2700  
gaggttatgg agtctgtagc ttcaggtaag atacttaaaa cccttcagag tttctccatt 2760  
ttttcccata gtttcccaa aaaggttatg acactttata agaatgcttc acttggtgaa 2820  
aacaaatata aaagtcttct tgtagattat ttttaaggac aaatctttat tccatgttta 2880  
atttatttag ctttccctgt agctaataat tcatgctgaa cacattttta atgctgtaaa 2940  
tgtagataat gtaatttatg tatcattaat gcctctttag tagtttagag aaaacgtcaa 3000  
aagaaatggc cccagaataa gcttcttgat ttgtaaaatt ctatgtcatt ggctcaaat 3060

```
<210> 477
<211> 140
<212> PRT
<213> Homo sapiens
```

<400> 477  
Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro  
                  5                       10                       15

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr  
20 25 30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr  
35 40 45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp  
50 55 60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr  
65 70 75 80

Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His  
85 90 95

Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr  
100 105 110

Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val  
115 120 125

Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln  
130 135 140

```
<210> 478
<211> 143
<212> PRT
<213> Homo sapiens
```

```
<400> 478
Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
           5              10              15
```

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
20 25 30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr  
35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr



50                      55                      60  
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
 65                      70                      75                      80  
 Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser  
 85                      90                      95  
 His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp  
 100                      105                      110  
 Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser  
 115                      120                      125  
 His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val  
 130                      135                      140

&lt;210&gt; 479

&lt;211&gt; 222

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 479

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln  
 5                      10                      15  
 Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr  
 20                      25                      30  
 Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr  
 35                      40                      45  
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr  
 50                      55                      60  
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr  
 65                      70                      75                      80  
 Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser  
 85                      90                      95  
 His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val  
 100                      105                      110  
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val  
 115                      120                      125  
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr  
 130                      135                      140  
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His  
 145                      150                      155                      160  
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala  
 165                      170                      175  
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp

180 185 190

Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala  
 195 200 205

Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val  
 210 215 220

<210> 480  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 480

Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val  
 5 10 15

Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr  
 20 25 30

Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg  
 35 40 45

Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly  
 50 55 60

Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln  
 65 70 75 80

Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys  
 85 90 95

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly  
 100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu  
 115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly  
 130 135 140

<210> 481  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 481

Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro  
 5 10 15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg  
 20 25 30

```
<210> 482
<211> 143
<212> PRT
<213> Homo sapiens
```

```

<400> 482
Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
      5              10              15

Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
      20              25              30

Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
      35              40              45

Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
      50              55              60

Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
      65              70              75              80

Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
      85              90              95

Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
      100              105              110

Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
      115              120              125

```

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly  
 130 135 140

<210> 483  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 483  
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val  
 5 10 15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala  
 20 25 30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp  
 35 40 45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu  
 50 55 60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp  
 65 70 75 80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg  
 85 90 95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val  
 100 105 110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val  
 115 120 125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys  
 130 135 140

<210> 484  
 <211> 30  
 <212> PRT  
 <213> Homo Sapien

<400> 484  
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe  
 1 5 10 15  
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile  
 20 25 30

<210> 485  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 485  
 gggaagctta tcacctatgt gccgcctctg c

<210> 486  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 486  
gcgaattctc acgctgagta tttggcc 27

<210> 487  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 487  
cccgaattct tagctgcca tccgaacgcc ttcac 36

<210> 488  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 488  
gggaagcttc ttccccggct gcaccagctg tgc 33

<210> 489  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 489  
Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala  
1 5 10 15  
Ser Val Ala

<210> 490  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 490  
Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys

171

1 5 10 15  
Leu Ser His Ser  
20  
  
<210> 491  
<211> 20  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in a lab  
  
<400> 491  
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu  
1 5 10 15  
Thr Gly Phe Thr  
20  
  
<210> 492  
<211> 20  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in a lab  
  
<400> 492  
Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr  
1 5 10 15  
Leu Ala Ser Leu  
20  
  
<210> 493  
<211> 20  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in a lab  
  
<400> 493  
Tyr Thr Leu Ala Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro  
1 5 10 15  
Lys Tyr Arg Gly  
20  
  
<210> 494  
<211> 20  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in a lab  
  
<400> 494  
Leu Pro Lys Tyr Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser  
1 5 10 15  
Leu Met Ile Ser

20

<210> 495  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 495  
Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro  
1 5 10 15  
Phe Pro Asn Gly  
20

<210> 496  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 496  
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu  
1 5 10 15  
Pro Pro Pro Pro Ala  
20

<210> 497  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 497  
Leu Leu Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val  
1 5 10 15  
Ser Val Arg Val  
20

<210> 498  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 498  
Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val  
1 5 10 15  
Val Pro Gly Arg  
20

<210> 499  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 499  
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp  
 1 5 10 15  
 Ser Ala Phe Leu  
 20

<210> 500  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 500  
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met  
 1 5 10 15  
 Gly Ser Ile Val  
 20

<210> 501  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 501  
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met  
 1 5 10 15  
 Val Ser Ala Ala  
 20

<210> 502  
 <211> 414  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(414)  
 <223> n=A,T,C or G

<400> 502  
 caccatggag acaggcctgc gctggctttt cctggctcgt gtgctcaaag gtgtccaatg 60  
 tcagtcggtg gaggagtcgc ggggtcgcct ggtaacgcct gggacacctt tgacantcac 120  
 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggtccc 180  
 agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240



```

gaaaggccga ttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300
gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggta atagtggttg 360
gaagaatatt tggggcccag gcaccctggt caccgtntcc tcagggcaac ctaa 414

```

```

<210> 503
<211> 379
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(379)
<223> n=A,T,C or G

```

```

<400> 503
atnccgatggt gcttgggtcaa aggtgtccag tgtcagtcgg tggaggagtc cggggggtcgc 60
ctggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt 120
agctatggag tgagctgggt ccgccaggct ccagggaagg ggtcgggnata catcggatca 180
ttagtagtag tggtagattt tacgcgagct gggcgaaagg ccgattcacc atttccaaaa 240
cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt 300
tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctgggtcaccg 360
tntccttagg gcaacctaa 379

```

```

<210> 504
<211> 19
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Made in a lab

```

```

<400> 504
Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
1 5 10 15
Asn Ser Ala

```

```

<210> 505
<211> 20
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Made in a lab

```

```

<400> 505
Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
1 5 10 15
Asn Thr Ala Asn
20

```

```

<210> 506
<211> 407
<212> DNA
<213> Homo Sapien

```

```

<400> 506

```

```

atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaaggtgt ccagtgtcag      60
tcgctggagg agtccggggg tcgcttggtc acgcctggga caccctgac actcacctgc      120
accgtctctg gattctccct cagtagcaat gcaatgatct gggtcgccca ggctccaggg      180
aaggggctgg aatacatcgg atacattagt tatggtggta gcgcatacta cgcgagctgg      240
gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt      300
ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg      360
ttgtggggcc caggcacccct ggtcaccgtc tcctcagggc aacctaa                407

```

<210> 507  
 <211> 422  
 <212> DNA  
 <213> Homo Sapien

```

<400> 507
atggagacag gcctgcgctg gcttctcctg gtcgctgtgc tcaaaggtgt ccagtgtcag      60
tcgctggagg agtccggggg tcgcttggtc acgcctggga caccctgac actcacctgt      120
acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg      180
aaggggctgg aatggatcgg gatcattaat tatgttggta ggacggacta cgcgaactgg      240
gcaaaaggcc ggttcaccat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt      300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct      360
ggcccggtgt tgcgcatctg gggcccaggc accctgggtc cgtctcctt agggcaacct      420
aa                                                                422

```

<210> 508  
 <211> 411  
 <212> DNA  
 <213> Homo Sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(411)  
 <223> n=A,T,C or G

```

<400> 508
atggagacag gcctcgtggt cttctcctgg tcgctgtgct caaaggtgtc cagtgtcagt      60
cgggtggagga gtccgggggt cgcctgggtc cgcctgggac acccctgaca ctcacctgca      120
cagtcctctg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg      180
aggggctgga atggatcgga atcattggta ctctggtgta cacatactac gcgaggtggg      240
cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc      300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta      360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g                411

```

<210> 509  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

```

<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1              5              10             15

```

<210> 510  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 510

Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
1				5					10					15

&lt;210&gt; 511

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 511

Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln	Lys
1				5					10					15

&lt;210&gt; 512

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 512

Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu
1				5					10					15

&lt;210&gt; 513

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 513

Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Asx	Val	Tyr	Thr	Asn	Leu
1				5					10					15

&lt;210&gt; 514

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Made in a lab

&lt;400&gt; 514

Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser
1				5					10					15

&lt;210&gt; 515

<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 515  
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg  
1 5 10 15

<210> 516  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 516  
Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln  
1 5 10 15

<210> 517  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 517  
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met  
1 5 10 15

<210> 518  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 518  
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly  
1 5 10 15

<210> 519  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 519  
Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys  
1 5 10 15

Gly

<210> 520  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 520  
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr  
 1 5 10 15  
 Glu Ala Arg Arg His Tyr Asp Glu Gly  
 20 25

<210> 521  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 521  
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu  
 1 5 10 15  
 Pro Pro Pro Pro Ala  
 20

<210> 522  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<400> 522  
 Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp  
 1 5 10 15  
 Phe Thr Gln Val  
 20

<210> 523  
 <211> 254  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Made in a lab

<220>  
 <221> VARIANT  
 <222> (1)...(254)  
 <223> Xaa = any amino acid

&lt;400&gt; 523

Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile  
 1 5 10 15  
 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile  
 20 25 30  
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu  
 35 40 45  
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln  
 50 55 60  
 Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly  
 65 70 75 80  
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
 85 90 95  
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu  
 100 105 110  
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu  
 115 120 125  
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala  
 130 135 140  
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg  
 145 150 155 160  
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu  
 165 170 175  
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys  
 180 185 190  
 Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly  
 195 200 205  
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly  
 210 215 220  
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu  
 225 230 235 240  
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 245 250

&lt;210&gt; 524

&lt;211&gt; 765

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 524

atggccacag caggaaatcc ctggggctgg ttctctgggggt acctcatcct tgggtgtcgca 60  
 ggatcgctcg tctctggtag ctgcagccaa atcataaacg gcgaggactg cagcccgcac 120  
 tcgcagccct ggcaggcggc actggtcatg gaaaacgaat tgttctgctc gggcgtcctg 180  
 gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 240  
 ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggg ggaggccagc 300  
 ctctccgtac ggcacccaga gtacaacaga cccttgctcg ctaacgacct catgctcatc 360  
 aagttggacg aatccgtgtc cgagttctgac accatccgga gcatcagcat tgcttcgcag 420  
 tgccctaccg cggggaactc ttgcctcggt tctggctggg gtctgctggc gaacggcaga 480  
 atgcctaccg tgctgcagtg cgtgaacgtg tcggtgggtg ctgaggaggt ctgcagtaag 540  
 ctctatgacc cgctgtacca cccagcatg ttctgcgccg gcggagggca agaccagaag 600  
 gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660  
 gtgtctttcg gaaaagcccc gtgtggccaa gttggcgtgc caggtgtcta caccaacctc 720  
 tgcaaattca ctgagtggat agagaaacc gtccaggcca gtttaa 765

&lt;210&gt; 525

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 525

Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile  
 1 5 10 15  
 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile  
 20 25 30  
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu  
 35 40 45  
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln  
 50 55 60  
 Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly  
 65 70 75 80  
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
 85 90 95  
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu  
 100 105 110  
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu  
 115 120 125  
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala  
 130 135 140  
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg  
 145 150 155 160  
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu  
 165 170 175  
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys  
 180 185 190  
 Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly  
 195 200 205  
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly  
 210 215 220  
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu  
 225 230 235 240  
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser  
 245 250

&lt;210&gt; 526

&lt;211&gt; 963

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 526

atgagttcct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggattagag 60  
 aaagcccatt tctgggttgg ctccccctc ctttccatgt atgtagtggc aatgttttga 120  
 aactgcatcg tgggtcttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180  
 tttctctgca tgcttgcagc cattgacctg gccttatcca catccaccat gcctaagatc 240  
 cttgcccttt tctggtttga ttcccgagag attagctttg aggcctgtct taccagatg 300  
 ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcccttgac 360  
 cgttatgtgg ccactctgcc cccactgcgc catgctgcag tgctcaacaa tacagtaaca 420  
 gccagattg gcatcgtggc tgtggtccgc ggatccctct tttttttccc actgcctctg 480  
 ctgatcaagc ggctggcctt ctgccactcc aatgtcctct cgcactccta ttgtgtccac 540  
 caggatgtaa tgaagtggc ctatgcagac actttgccca atgtggtata tggctttact 600  
 gccattctgc tgggtcatggg cgtggacgta atgttcatct ccttgtccta ttttctgata 660  
 atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaaacctgt 720  
 gtgtcacaca ttggtgtggg actcgccttc tatgtgccac ttattggcct ctcagttgta 780  
 caccgctttg gaaacagcct tcatccatt gtgcgtgttg tcatgggtga catctacctg 840  
 ctgctgcctc ctgtcatcaa tccatcatc tatggtgccca aaaccaaaca gatcagaaca 900  
 cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggaggcaag 960  
 tga

&lt;210&gt; 527

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 527

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile  
                                   5                                  10                                  15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser  
                                   20                                  25                                  30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val  
                                   35                                  40                                  45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met  
                                   50                                  55                                  60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile  
                                   65                                  70                                  75                                  80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys  
                                   85                                  90                                  95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr  
                                   100                                  105                                  110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro  
                                   115                                  120                                  125

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly  
                                   130                                  135                                  140

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu  
                                   145                                  150                                  155                                  160

Leu Ile Lys Arg Leu Ala Phe Cys His Ser Asn Val Leu Ser His Ser  
                                   165                                  170                                  175

Tyr Cys Val His Gln Asp Val Met Lys Leu Ala Tyr Ala Asp Thr Leu  
                                   180                                  185                                  190

Pro Asn Val Val Tyr Gly Leu Thr Ala Ile Leu Leu Val Met Gly Val  
                                   195                                  200                                  205

Asp Val Met Phe Ile Ser Leu Ser Tyr Phe Leu Ile Ile Arg Thr Val  
                                   210                                  215                                  220

Leu Gln Leu Pro Ser Lys Ser Glu Arg Ala Lys Ala Phe Gly Thr Cys  
                                   225                                  230                                  235                                  240

Val Ser His Ile Gly Val Val Leu Ala Phe Tyr Val Pro Leu Ile Gly  
                                   245                                  250                                  255

Leu Ser Val Val His Arg Phe Gly Asn Ser Leu His Pro Ile Val Arg  
                                   260                                  265                                  270



Val Val Met Gly Asp Ile Tyr Leu Leu Leu Pro Pro Val Ile Asn Pro  
 275 280 285

Ile Ile Tyr Gly Ala Lys Thr Lys Gln Ile Arg Thr Arg Val Leu Ala  
 290 295 300

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys  
 305 310 315 320

<210> 528  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 528  
 actatggtcc agaggctgtg 20

<210> 529  
 <211> 20  
 <212> DNA  
 <213> Homo Sapien

<400> 529  
 atcacctatg tgccgcctct 20

<210> 530  
 <211> 1852  
 <212> DNA  
 <213> Homo sapiens

<400> 530

ggcacgagaa	ttaaaaccct	cagcaaaaaca	ggcatagaag	ggacatacct	ttaaagtaata	60
aaaaccacct	atgacaagcc	cacagccaac	ataatactaa	atgggggaaaa	gttagaagca	120
tttcctctga	gaactgcaac	aataaatata	aggatgctgg	attttgtaa	atgccttttc	180
tgtgtctgtt	gagatgctta	tgtgactttg	cttttaattc	tgtttatgtg	attatcacat	240
ttattgactt	gcctgtgtta	gaccggaaga	gctgggggtg	ttctcaggag	ccaccgtgtg	300
ctgcggcagc	ttcgggataa	cttgaggctg	catcactggg	gaagaaacac	aytcctgtcc	360
gtggcgctga	tggtgagga	cagagcttca	gtgtggcttc	tctgcgactg	gcttcttcgg	420
ggagttcttc	cttcatagtt	catccatatg	gctccagagg	aaaattatat	tattttgtta	480
tggatgaaga	gtattacgtt	gtgcagatat	actgcagtgt	cttcactctc	tgatgtgtga	540
ttgggtaggt	tcaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gatattgtgg	tttctggatc	tcactcctctg	tgggtggaca	660
gctttctcca	ccttgctgga	agtgcctgc	tgtccagaag	tttgatggct	gaggagtata	720
ccatcgtgca	tgcatctttc	atttcttgca	tttcttctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
agcaagaggt	gcaagtgggtg	ctgccactgc	ttcccctgct	gcagggggag	cggcaagagc	900
aacgtggctg	cttggggaga	ctacgatgac	agcgccttca	tggatcccag	gtaccacgtc	960
catggagaag	atctggacaa	gctccacaga	gctgcctggt	ggggtaaaagt	ccccagaaag	1020
gatctcatcg	tcattgctcag	ggacacggat	gtgaacaaga	gggacaagca	aaagaggact	1080
gctctacatc	tggcctctgc	caatgggaat	tcagaagtag	taaaactcgt	gctggacaga	1140
cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	ggccgtacaa	1200
tgccaggaag	atgaatgtgc	gttaatgttg	ctggaacatg	gcactgatcc	aaatattcca	1260
gatgagtatg	gaaataccac	tctacactat	gctgtctaca	atgaagataa	attaatggcc	1320
aaagcactgc	tcttatacgg	tgctgatatc	gaatcaaaaa	acaagcatgg	cctcacacca	1380
ctgctacttg	gtatacatga	gcaaaaacag	caagtgggtga	aatttttaat	caagaaaaaa	1440
gcgaatttaa	atgcgctgga	tagatatgga	agaactgctc	tcatacttgc	tgtatgttgt	1500
ggatcagcaa	gtatagtcag	ccctctactt	gagcaaaatg	ttgatgtatc	ttctcaagat	1560
ctggaagagc	ggccagagag	tatgctgttt	ctagtcatca	tcatgtaatt	tgccagttac	1620

```
<210> 531
<211> 879
<212> DNA
<213> Homo sapiens
```

```
<210> 532
<211> 292
<212> PRT
<213> Homo sapiens
```

```

<400> 532
Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
          5                      10                      15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
          20                      25                      30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
          35                      40                      45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
          50                      55                      60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
          65                      70                      75                      80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
          85                      90                      95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
          100                      105                      110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
          115                      120                      125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu

```

130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu  
145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile  
165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu  
180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu  
195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu  
210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu  
225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys  
245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp  
260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu  
275 280 285

Val Ile Ile Met  
290

<210> 533  
<211> 801  
<212> DNA  
<213> Homo sapiens

<400> 533

atgtacaagc	ttcagtgcaa	caactgtgct	acaaatggag	ccacagagag	gaaacaagca	60
gcaggctcag	gagcagggtg	tgcgctgcct	tcggctctcc	aatccatgcc	tcagggtctcc	120
tatgccactg	cacgattctt	ggttgccaag	aggccaacca	caggccatct	tgagaaggag	180
tttatgttcc	actgcagaaa	gcagccagga	tcaccatcca	ggggacttgg	tcttctgtgg	240
ccctggccag	acatagaatt	tgtgccaagg	caggacaagc	tactcagag	cagcgtgtta	300
gtacctcaaa	tctgtgcgtg	ccagacaagg	ccaaactggc	tcaatgagca	accagccacc	360
tctgcagggg	tgcgtctgga	ggaggtggac	cagccaccaa	ccttaccag	tcaaggaagt	420
ggatggccat	gttccacag	cctgagtggc	tgccacctga	tggctgatat	agcaaaggcc	480
ttaggaaaag	cagatggccc	ttggccctac	ctttttgtta	gaagaactga	tggtccatgt	540
cctgcagcga	gtgaggttgg	tggctgtgcc	cccagctcct	ggcacaccct	cgcagagggtg	600
actggttgct	ctttgagccc	tcttagcctt	gccagcatg	cacaagcctc	agtgtacta	660
ctgtgtctaca	aatggagcca	tataggggaa	acgagcagcc	atctcaggag	caaggtgtat	720
gctgcctttg	ggggctccag	tccttgccctc	aagggtctta	tgtcactgtg	ggcttcttgg	780
ttgccaagag	gcagaccata	g				801

<210> 534  
<211> 266  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 534

Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu  
                           5                          10                          15

Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala  
                           20                          25                          30

Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val  
                           35                          40                          45

Ala Lys Arg Pro Thr Thr Gly His Leu Glu Lys Glu Phe Met Phe His  
                           50                          55                          60

Cys Arg Lys Gln Pro Gly Ser Pro Ser Arg Gly Leu Gly Leu Leu Trp  
                           65                          70                          75                          80

Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln  
                           85                          90                          95

Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn  
                           100                          105                          110

Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu  
                           115                          120                          125

Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys  
                           130                          135                          140

Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala  
                           145                          150                          155                          160

Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr  
                           165                          170                          175

Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser  
                           180                          185                          190

Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu  
                           195                          200                          205

Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys  
                           210                          215                          220

Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr  
                           225                          230                          235                          240

Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu  
                           245                          250                          255

Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro  
                           260                          265

&lt;210&gt; 535

&lt;211&gt; 6082

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

```

cctccactat tacagcttat aggaaattac aatccacttt acaggcctca aaggttcatt 60
ctggccgagc ggacaggcgt ggccggccgga gccccagcat ccctgcttga ggtccaggag 120
cggagcccgcc ggccactgcc gcctgatcag cgcgaccccg gcccgcgccc gccccgccc 180
gcaagatgct gcccggttac caggagggtga agcccaaccc gctgcaggac gcgaacctct 240
gctcacgcgt gttcttctgg tggctcaatc ccttgtttaa aattggccat aaacggagat 300
tagaggaaga tgatatgtat tcagtgtctgc cagaagaccg ctcacagcac cttggagagg 360
agttgcaagg gttctgggat aaagaagttt taagagctga gaatgacgca cagaagcctt 420
ctttaacaag agcaatcata aagtgttact ggaaatctta tttagttttg ggaattttta 480
cgtaattga ggaaagtgcc aaagtaatcc agcccatatt tttgggaaaa attattaatt 540
attttgaaaa ttatgatccc atggattctg tggctttgaa cacagcgtac gcctatgcc 600
cgggtgctgac tttttgcacg ctcatttttg ctatactgca tcacttafat ttttatcacg 660
ttcagtgtgc tgggatgagg ttacgagtag ccatgtgcca tatgatttat cggaaggcac 720
ttcgtcttag taacatggcc atggggaaga caaccacagg ccagatagtc aatctgctgt 780
ccaatgatgt gaacaagttt gatcaggtga cagtgttctt acacttctctg tgggcaggac 840
cactgcaagg gatcgacgtg actgccctac tctggatgga gataggaata tcgtgccttg 900
ctgggatggc agttctaatc atttctctgc ccttgcaaag ctgttttggg aagttgttct 960
catcactgag gaggtaaaact gcaactttca cggatgccag gatcaggacc atgaatgaag 1020
ttataactgg tataaggata ataaaaatgt acgcctggga aaagtcattt tcaaacttta 1080
ttaccaattt gagaaagaag gagatttcca agattctgag aagttcctgc ctcaggggga 1140
tgaatttggc ttcgtttttc agtgcaagca aaatcatcgt gttgtgacc ttaccacct 1200
acgtgctcct cggcagtggt atcacagcca gccgcgtgtt cgtggcagtg acgctgtatg 1260
ggcgctgtcg cgtgacggtt accctcttct tcccctcagc cattgagagg gtgtcagagg 1320
caatcgtcag catccgaaga atccagacct ttttgcact tgatgagata tcacagcgca 1380
accgtcagct gccgtcagat ggtaaaaaga tgggtcatgt gcaggatttt actgcttttt 1440
gggataaggc atcagagacc ccaactctac aaggcctttc ctttactgtc agacctggcg 1500
aattgttagc tgtggtcggc cccgtgggag cagggaagtc atcactgtta agtgccgtgc 1560
tcggggaatt ggccccaagt cacgggctgg tcagcgtgca tggagaatt gcctatgtgt 1620
ctcagcagcc ctgggtgttc tcgggaactc tgaggagtaa tattttattt gggaagaaat 1680
acgaaaagga agatatgaa aaagtcataa aggcttgtgc tctgaaaaag gatttacagc 1740
tggtggagga tgggtgatctg actgtgatag gagatcgggg aaccacgctg agtggagggc 1800
agaaagcacg ggtaaacctt gcaagagcag tgatcaaga tgctgacatc tatctcctgg 1860
acgatcctct cagtgcagta gatgcggaag ttagcagaca cttgttcgaa ctgtgtattt 1920
gtcaaatttt gcatgagaag atcacaattt tagtgactca tcagttgcag tacctcaaag 1980
ctgcaagtca gattctgata ttgaaagatg gtaaaatggg gcagaagggg acttacactg 2040
agttcctaaa atctggtata gattttggct ccctttttaa gaaggataat gaggaaagtg 2100
aacaacctcc agttccagga actcccacac taaggaaatcg taccttctca gagtctcgg 2160
tttgggtctca acaattctct agaccctcct tgaaagatgg tgctctggag agccaagata 2220
cagagaatgt cccagttaca ctatcagagg agaaccgttc tgaaggaaaa gttggttttc 2280
aggcctataa gaattacttc agagctgggt ctcactggat tgtcttcatt ttccttattc 2340
tcctaaacac tgcagtcag gttgcctatg tgcttcaaga ttggtggctt tcatactggg 2400
caaacaaaca aagtatgcta aatgtcactg taaatggagg aggaaatgta accgagaagc 2460
tagatcttaa ctggtactta ggaatttatt caggtttaac tgtagctacc gttctttttg 2520
gcatagcaag atctctattg gtattctacg tccttggtta ctcttcacaa actttgcaca 2580
acaaaatggt tgagtcatt ctgaaagctc cggattatt ctttgataga aatccaatag 2640
gaagaatttt aaatcgtttc tccaaagaca ttggacactt ggatgatttg ctgccgctga 2700
cgtttttaga tttcatccag acattgctac aagtgggttg tgtggtctct gtggctgtgg 2760
ccgtgattcc ttggatcgca atacccttg ttccccttg aatcattttc atttttcttc 2820
ggcgatattt ttggaaacg tcaagagatg tgaagcgctt ggaatctaca actcggagtc 2880
cagtgttttc ccacttgtea tcttctctcc aggggtctcg gaccatccgg gcatacaaag 2940
cagaagagag gtgtcaggaa ctgtttgatg cacaccagga ttacattca gaggcttgg 3000
tcttgttttt gacaacgtcc cgctgggtcg ccgtccgtct ggatgccatc tgtgccatgt 3060
ttgtcatcat cgttgctttt gggtccctga tcttgcaaaa aactctggat gccgggcagg 3120
ttggtttggc actgtcctat gccctcacgc tcatggggat gtttcagtgg tgtgttcgac 3180
aaagtgtctg agttgagaat atgatgatct cagtagaaag ggtcattgaa tacacagacc 3240
ttgaaaaaga agcaccttgg gaatatcaga aacgcccacc accagcctgg ccccatgaag 3300
gagtgataat ctttgacaat gtgaacttca tgtacagtcc aggtgggcct ctggtactga 3360

```

```

agcatctgac agcactcatt aaatcacaag aaaaggttgg cattgtggga agaaccggag 3420
ctggaaaaag ttccctcatc tcagcccttt ttagattgtc agaaccgaa ggtaaaaattt 3480
ggattgataa gatcttgaca actgaaattg gacttcacga ttaaggaag aaaatgtcaa 3540
tcataacctca ggaacctgtt ttgttactg gaacaatgag gaaaaacctg gatcccttta 3600
atgagcacac ggatgaggaa ctgtggaatg ccttacaaga ggtacaactt aaagaaacca 3660
ttgaagatct tcctggtaaa atggatactg aattagcaga atcaggatcc aatttttagtg 3720
ttggacaaag acaactggtg tgccttgcca gggcaattct caggaaaaat cagatattga 3780
ttattgatga agcgacggca aatgtggatc caagaactga tgagttaata caaaaaaaat 3840
ccgggagaaa ttgcccact gcaccgtgct aaccattgca cacagattga acaccattat 3900
tgacagcgac aagataatgg ttttagattc aggaagactg aaagaatatg atgagccgta 3960
tgttttgctg caaaataaag agagcctatt ttacaagatg gtgcaacaac tgggcaaggc 4020
agaagccgct gccctcactg aaacagcaaa acagggtatac ttcaaaagaa attatccaca 4080
tattgtgcac actgaccaca tggttacaaa cacttccaat ggacagccct cgaccttaac 4140
tattttcgag acagcactgt gaatccaacc aaaatgtcaa gtccgttccg aaggcatttg 4200
ccactagtgt ttggactatg taaaccacat tgtacttttt tttacttttg caacaaatat 4260
ttatacatat aagatgctag ttcatttgaa tttttctccc aacttatcca aggatctcca 4320
gctctaacaa aatggtttat ttttatttaa atgtcaatag ttgtttttta aaatccaaat 4380
cagaggtgca ggcaccagt taaatgccgt ctactcaggt ttgtgcctta agagactaca 4440
gagtcaaaag tcatttttaa aggagtagga cagagttgtc acaggttttt gttgttgttt 4500
ttattgcccc caaaattaca tgtaatttc catttatatc agggattcta tttacttgaa 4560
gactgtgaag ttgccatttt gtctcattgt tttctttgac ataactagga tccattattt 4620
cccctgaagg cttcttggtt gaaaatagta cagttacaac caataggaac aacaaaaaga 4680
aaaagtttgt gacattgtag tagggagtgt gtacccctta ctcccatca aaaaaaaaaa 4740
tggtacatg gttaaaggat agaagggcaa tattttatca tatgttctaa aagagaagga 4800
agagaaaata ctactttctc aaaatggaag cccttaaagg tgctttgata ctgaaggaca 4860
caaatgtgac cgtccatcct cctttagagt tgactgactt ggacacggta actgttgtag 4920
ttttagactc agcattgtga cacttcccaa gaaggccaaa cctctaaccg acattcctga 4980
aatacgtggc attattcttt tttggatttc tcatttatgg aaggctaacc ctctgttgac 5040
tgtaagcctt ttggtttggg ctgtattgaa atcctttcta aattgcatga ataggctctg 5100
ctaacgtgat gagacaaact gaaaattatt gcaagcattg actataatta tgcagtacgt 5160
tctcaggatg catccagggy ttcattttca tgagcctgtc cagggttagtt tactcctgac 5220
cactaatagc attgtcattt gggctttctg ttgaatgaat caacaaacca caatacttcc 5280
tgggaccttt tgtactttat ttgaactatg agtctttaat tttcctgat gatggtggct 5340
gtaatatgtt gaattcagtt tactaaaggt tttactatta tggtttgaag tggagtctca 5400
tgacctctca gaataagggt tcacctccct gaaattgcat atatgtatat agacatgcac 5460
acgtgtgcat ttgtttgtat acatatattt gtccttcgta tagcaagttt tttgctcatc 5520
agcagagagc aacagatgtt ttattgagtg aagccttaaa aagcacacac cacacacagc 5580
taactgccaa aatacattga ccgtagtagc tgttcaactc ctagtactta gaaatacacg 5640
tatggttaat gttcagtcca acaaaccaca cacagtaaat gtttattaat agtcatggtt 5700
cgtatttttag gtgactgaaa ttgcaacagt gatcataatg aggtttgtta aaatgatagc 5760
tatattcaaa atgtctatat gtttatttgg acttttgagg ttaaagacag tcatataaac 5820
gtcctgtttc tgttttaatg ttatcataga attttttaat gaaactaaat tcaattgaaa 5880
taaatgatag ttttcatctc caaaaaaaaaa aaaaaaaagg gcggccgctc gagtctagag 5940
ggcccggtta aaccgctga tcagcctcga ctgtgccttc tagttgccag ccatctgttg 6000
tttggccctc ccccgctgct tccttgacct tgggaaggtgc cactccact gtcctttcct 6060
aataaaatga ggaaattgca tc
6082

```

&lt;210&gt; 536

&lt;211&gt; 6140

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (6140)

&lt;223&gt; n=A,T,C or G

&lt;400&gt; 536

cagtggcgca gtctcagctc actgcagcct ccacctcctg tgttcaagca gtcctcctgc 60  
ctcagccacc agactagcag gtctcccccg cctcttttctt ggaaggacac ttgccattgg 120  
atttaggacc cacttggata atccaggatg atgtcttcac tccaacatcc tcagtttaaat 180  
tccatgtgca aatacccttt tcccaataaa cattcaattc tttaccagga aaggtggctc 240  
aatcccttgt ttaaaattgg ccataaacgg agattagagg aagatgatat gtattcagtg 300  
ctgccagaag accgctcaca gcaccttgga gaggagtggc aagggttctg ggataaagaa 360  
gttttaagag ctgagaatga cgcacagaag ccttctttta caagagcaat cataaagtgt 420  
tactggaaat cttatttagt tttgggaatt tttacgttaa ttgaggaaag tgccaaagta 480  
atccagccca tatttttggg aaaaattatt aattattttg aaaattatga tcccatggat 540  
tctgtggctt tgaacacagc gtaocctat gccacgggtg tgactttttg cacgctcatt 600  
ttgctatcac tgcatacact atatttttat cacgttcagt gtgctgggat gaggttacga 660  
gtagccatgt gccatatgat ttatcggaag gcacttcgtc ttagtaacat ggccatgggg 720  
aagacaacca caggccagat agtcaatctg ctgtccaatg atgtgaacaa gtttgatcag 780  
gtgacagtgt tcttacactt cctgtgggca ggaccactgc aggcgatcgc agtgactgcc 840  
ctactctgga tggagatagg aatatcgtgc cttgctggga tggcagttct aatcattctc 900  
ctgcccttgc aaagctgttt tgggaagttg ttctcatcac tgaggagtaa aactgcaact 960  
ttcacggatg ccaggatcag gaccatgaat ctggtataag gataataaaa 1020  
atgtacgcct gggaaaagtc attttcaaat cttattacca atttgagaaa gaaggagatt 1080  
tccaagattc tgagaagttc ctgcctcagg gggatgaatt tggtctcgtt tttcagtga 1140  
agcaaaatca tcgtgtttgt gaccttcacc acctacgtgc tctcggcag tgtgatcaca 1200  
gccagccgag gtgtcgtggc agtgacgctg tatggggctg tgcggctgac ggttaccctc 1260  
ttcttccctc cagccattga gaggtgtgca gaggcaatcg tcagcatccg aagaatccag 1320  
acctttttgc tacttgatga gatatacag cgcaaccgtc agctgccgtc agatggtaaa 1380  
aagatggtgc atgtgcagga ttttactgct ttttgggata aggcatacaga gaccccaact 1440  
ctacaaggcc tttcctttac tgtcagacct ggcgaattgt tagctgtggt cggccccgtg 1500  
ggagcaggga agtcatcact gttaaagtgc gtgctcgggg aattggcccc aagtcacggg 1560  
ctggtcagcg tgcattggaag aattgcctat gtgtctcagc agccctgggt gttctcggga 1620  
actctgagga gtaataattt atttgggaag aaatacgaaa aggaacgata tgaaaaagtc 1680  
ataaaggctt gtgctctgaa aaaggattta cagctgttgg aggatggtga tctgactgtg 1740  
ataggagatc ggggaaccac gctgagtggg gggcagaaaag cacgggtaaa ccttgcaaga 1800  
gcagtgtatc aagatgctga catctatctc ctggacgatc ctctcagtg ctagatgctg 1860  
gaagttagca gacacttggt cgaactgtgt atttgtcaaa ttttgcatga gaagatcaca 1920  
attttagtga ctcatacagt gcagtacctc aaagctgcaa gtcagattct gatattgaaa 1980  
gatggtaaaa tgggtgcagaa ggggacttac actgagttcc taaaatctgg tatagatttt 2040  
ggctcccttt taaagaagga taatgaggaa agtgaacaac ctccagttcc aggaactccc 2100  
acactaagga atcgtacctt ctcagagtct tcggtttggt ctcaacaatc ttctagaccc 2160  
tccttgaaag atggtgctct ggagagccaa gatacagaga atgtcccagt tacactatca 2220  
gaggagaacc gttctgaagg aaaagttggt tttcaggcct ataagaatta cttcagagct 2280  
ggtgctcact ggattgtctt cattttcctt attctcctaa acactgcagc tcaggttgcc 2340  
tatgtgcttc aagattggtg gctttcctac tgggcaaaaca aacaaagtat gctaaatgtc 2400  
actgtaaatg gaggaggaaa tgtaaccgag aagctagatc ttaactggta cttaggaatt 2460  
tattcaggtt taactgtagc taccgttctt tttggcatag caagatctct attggtattc 2520  
tacgtccttg ttaactcttc aaaaactttg cacaacaaaa tgtttgagtc aattctgaaa 2580  
gctccggtat tattctttga tagaaatcca ataggaagaa ttttaaactg tttctccaaa 2640  
gacattggac acttggtatg tttgctgccg ctgacgtttt tagatttcat ccagacattg 2700  
ctacaagtgg ttggtgtggt ctctgtggct gtggccgtga ttccttggat cgcaataccc 2760  
ttggttcccc ttggaatcat tttcattttt cttcggcgat attttttgga aacgtcaaga 2820  
gatgtgaagc gcctggaatc tacaactcgg agtccagtgt tttcccactt gtcactctct 2880  
ctccaggggc tctggacat cccggcatac aaagcagaag agaggtgtca ggaactgttt 2940  
gatgcacacc aggatattaca ttcagaggct tggttcttgt ttttgacaac gtcccgtgg 3000  
ttcggcgtcc gtctggatgc catctgtgcc atgtttgtca tcatcgttgc ctttgggtcc 3060  
ctgattctgg caaaaactct ggatgccggg caggttggtt tggcactgtc ctatgccctc 3120  
acgctcatgg ggatgtttca gtggtgtgtt cgacaaagtg ctgaagttga gaatatgatg 3180  
atctcagtag aaagggtcat tgaatacaca gacctgaaa aagaagcacc ttgggaatat 3240  
cagaaacgcc caccaccagc ctggccccat gaaggagtga taatctttga caatgtgaac 3300  
ttcatgtaca gtccaggtg gctctggta ctgaagcatc tgacagcact cattaaatca 3360  
caagaaaagg ttggcattgt gggaagaacc ggagctggaa aaagttccct catctcagcc 3420  
cttttttagat tgtcagaacc cgaaggtaaa atttggtattg ataagatctt gacaactgaa 3480

```

attggacttc acgattttaag gaagaaaatg tcaatcatatc ctcaggaacc tgttttgttc 3540
actggaacaa tgaggaaaaa cctggatccc tttaatgagc acacggatga ggaactgtgg 3600
aatgccttac aagaggtaca acttaaaaga accattgaag atcttcctgg taaaatggat 3660
actgaattag cagaatcagg atccaatttt agtggtggac aaagacaact ggtgtgcctt 3720
gccagggcaa ttctcaggaa aaatcagata ttgattattg atgaagcgac ggcaaatgtg 3780
gatccaagaa ctgatgagtt aatacaaaaa aaaatccggg agaaatttgc ccactgcacc 3840
gtgctaacca ttgcacacag attgaacacc attattgaca ggcacaagat aatggtttta 3900
gattcaggaa gactgaaaga atatgatgag ccgtatgttt tgctgcaaaa taaagagagc 3960
ctatttttaca agatgggtgca acaactgggc aaggcagaag ccgctgccct cactgaaaca 4020
gcaaaacaga gatggggttt caccatgttg gccaggctgg tctcaaactc ctgacctcaa 4080
gtgatccacc tgccctggcc tcccaaaactg ctgagattac aggtgtgagc caccacgccc 4140
agcctgagta tacttcaaaa gaaattatcc acatattggt cacactgacc acatggttac 4200
aaacacttcc aatggacagc cctcgacctt aactattttc gagacagcac tgtgaatcca 4260
accaaagtgt caagtccgtt ccgaaggcat ttgccactag tttttggact atgtaaacca 4320
cattgtactt ttttttactt tggcaacaaa tatttatata tacaagatgc tagttcattt 4380
gaatatttct cccaacttat ccaaggatct ccagctctaa caaatgggtt tatttttatt 4440
taaagtcaaa tagtkgkttt ttaaaatcca aatcagaggt gcaggccacc agttaaatgc 4500
cgtctatcag gttttgtgcc ttaagagact acagnagtca gaagctcatt tttaaaggag 4560
taggacagag ttgtcacagg tttttgttgg tgtttktatt gccccaaaaa ttacatgtta 4620
atttccattt atatcagggg atttctattta cttgaagact gtgaagttgc cattttgtct 4680
cattgttttc tttagacatam ctaggatcca ttatttcccc tgaaggcttc ttgkagaaaa 4740
tagtacagtt acaaccaata ggaactamca aaaagaaaaa gtttgtgaca ttgtagtagg 4800
gagtgtgtac cccttactcc ccatcaaaaa aaaaaatgga tacatggtta aaggatagaa 4860
gggcaatatt ttatcatatg ttctaaaaga gaaggaagag aaaatactac tttctcaaaa 4920
tggaagccct taaaggtgct ttgatactga aggacacaaa tgtgaccgtc catcctcctt 4980
tagagttgca tgacttgga acggttaactg ttgcagtttt agactcagca ttgtgacact 5040
tcccaagaag gccaaacctc taaccgacat tcctgaaata cgtggcatta ttcttttttg 5100
gatttctcat ttaggaaggc taacctctctg ttgamtgtam kccttttggg ttgggctgta 5160
ttgaaatcct ttctaaattg catgaatagg ctctgctaac cgtgatgaga caaactgaaa 5220
attattgcaa gcattgacta taattatgca gtacgttctc aggatgcata cagggggttca 5280
ttttcatgag cctgtccagg ttagtttact cctgaccact aatagcattg tcatttgggc 5340
tttctgttga atgaatcaac aaaccacaat acttctctggg accttttgta ctttatttga 5400
actatgagtc tttaattttt cctgatgatg gtggctgtaa tatgttgagt tcagtttact 5460
aaaggtttta ctattatggt ttgaaggag tctcatgacc tctcagaaaa ggtgcacctc 5520
cctgaaattg catatatgta tatagacatg cacacgtgtg catttgtttg tatacatata 5580
tttgtccttc gtatagcaag ttttttgcctc atcagcagag agcaacagat gttttattga 5640
gtgaagcctt aaaaagcaca caccacacac agctaactgc caaaatacat tgaccgtagt 5700
agctgttcaa ctctagtac ttagaaatac acgtatgggt aatgttcagt ccaacaaacc 5760
acacacagta aatgtttatt aatagtcatg gttcgtattt taggtgactg aaattgcaac 5820
agtgatcata atgaggtttg ttaaaatgat agctatatcc aaaaatgtcta tatgtttatt 5880
tggacttttg aggttaaaga cagtcataata aacgtcctgt ttctgtttta atgttatcat 5940
agaatttttt aatgaaacta aattcaattg aaataaatga tagttttcat ctccaaaaaa 6000
aaaaaaaaag ggcggcccgcc tcgagtctag agggcccggt ttaaaccgcg tgatcagcct 6060
cgactgtgcc ttctagttgc cagccatctg ttgtttggcc ctcccccggt ccttccttga 6120
ccctggaagg ggccactccc                                     6140

```

&lt;210&gt; 537

&lt;211&gt; 1228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

```

Met Leu Pro Val Tyr Gln Glu Val Lys Pro Asn Pro Leu Gln Asp Ala
          5                      10                      15

```

```

Asn Leu Cys Ser Arg Val Phe Phe Trp Trp Leu Asn Pro Leu Phe Lys
          20                      25                      30

```



Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu  
                   35                                  40                                  45  
 Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp  
                   50                                  55                                  60  
 Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu  
                   65                                  70                                  75                                  80  
 Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly  
                                   85                                  90                                  95  
 Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe  
                                   100                                  105                                  110  
 Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser  
                   115                                  120                                  125  
 Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys  
                   130                                  135                                  140  
 Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln  
                   145                                  150                                  155                                  160  
 Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg  
                                   165                                  170                                  175  
 Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly Lys Thr Thr Thr Gly  
                                   180                                  185                                  190  
 Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn Lys Phe Asp Gln Val  
                   195                                  200                                  205  
 Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro Leu Gln Ala Ile Ala  
                   210                                  215                                  220  
 Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile Ser Cys Leu Ala Gly  
                   225                                  230                                  235                                  240  
 Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln Ser Cys Phe Gly Lys  
                                   245                                  250                                  255  
 Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr Phe Thr Asp Ala Arg  
                                   260                                  265                                  270  
 Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile Arg Ile Ile Lys Met  
                   275                                  280                                  285  
 Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile Thr Asn Leu Arg Lys  
                   290                                  295                                  300  
 Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys Leu Arg Gly Met Asn  
                   305                                  310                                  315                                  320  
 Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile Val Phe Val Thr Phe  
                                   325                                  330                                  335  
 Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr Ala Ser Arg Val Phe

340	345	350
Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu Thr Val Thr Leu Phe		
355	360	365
Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg		
370	375	380
Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg		
385	390	395
Gln Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr		
	405	410
Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser		
	420	425
Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly		
	435	440
Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro		
	450	455
Ser His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln		
465	470	475
Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly		
	485	490
Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala		
	500	505
Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile		
	515	520
Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn		
	530	535
Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp		
545	550	555
Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu		
	565	570
Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His		
	580	585
Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp		
	595	600
Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly		
	610	615
Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln		
625	630	635
Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu		
	645	650

Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly  
 660 665 670  
 Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu  
 675 680 685  
 Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr  
 690 695 700  
 Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Leu  
 705 710 715 720  
 Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser  
 725 730 735  
 Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly  
 740 745 750  
 Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr  
 755 760 765  
 Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu  
 770 775 780  
 Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys  
 785 790 795 800  
 Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg Asn  
 805 810 815  
 Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu  
 820 825 830  
 Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln Thr Leu Leu  
 835 840 845  
 Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile  
 850 855 860  
 Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg  
 865 870 875 880  
 Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr  
 885 890 895  
 Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp  
 900 905 910  
 Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys Gln Glu Leu Phe Asp  
 915 920 925  
 Ala His Gln Asp Leu His Ser Glu Ala Trp Phe Leu Phe Leu Thr Thr  
 930 935 940  
 Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val  
 945 950 955 960

Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala  
 965 970 975  
 Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met  
 980 985 990  
 Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile  
 995 1000 1005  
 Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro  
 1010 1015 1020  
 Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val  
 1025 1030 1035 1040  
 Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu  
 1045 1050 1055  
 Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly  
 1060 1065 1070  
 Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu  
 1075 1080 1085  
 Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu  
 1090 1095 1100  
 Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile  
 1105 1110 1115 1120  
 Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp  
 1125 1130 1135  
 Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu  
 1140 1145 1150  
 Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr  
 1155 1160 1165  
 Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu  
 1170 1175 1180  
 Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile  
 1185 1190 1195 1200  
 Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln  
 1205 1210 1215  
 Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys  
 1220 1225  
 <210> 538  
 <211> 1261  
 <212> PRT  
 <213> Homo sapiens  
 <400> 538  
 Met Tyr Ser Val Leu Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu

5					10					15					
Leu	Gln	Gly	Phe	Trp	Asp	Lys	Glu	Val	Leu	Arg	Ala	Glu	Asn	Asp	Ala
			20					25					30		
Gln	Lys	Pro	Ser	Leu	Thr	Arg	Ala	Ile	Ile	Lys	Cys	Tyr	Trp	Lys	Ser
			35					40					45		
Tyr	Leu	Val	Leu	Gly	Ile	Phe	Thr	Leu	Ile	Glu	Glu	Ser	Ala	Lys	Val
			50					55					60		
Ile	Gln	Pro	Ile	Phe	Leu	Gly	Lys	Ile	Ile	Asn	Tyr	Phe	Glu	Asn	Tyr
			65					70					75		80
Asp	Pro	Met	Asp	Ser	Val	Ala	Leu	Asn	Thr	Ala	Tyr	Ala	Tyr	Ala	Thr
				85					90					95	
Val	Leu	Thr	Phe	Cys	Thr	Leu	Ile	Leu	Ala	Ile	Leu	His	His	Leu	Tyr
			100					105					110		
Phe	Tyr	His	Val	Gln	Cys	Ala	Gly	Met	Arg	Leu	Arg	Val	Ala	Met	Cys
			115					120					125		
His	Met	Ile	Tyr	Arg	Lys	Ala	Leu	Arg	Leu	Ser	Asn	Met	Ala	Met	Gly
			130					135					140		
Lys	Thr	Thr	Thr	Gly	Gln	Ile	Val	Asn	Leu	Leu	Ser	Asn	Asp	Val	Asn
			145					150					155		160
Lys	Phe	Asp	Gln	Val	Thr	Val	Phe	Leu	His	Phe	Leu	Trp	Ala	Gly	Pro
				165					170					175	
Leu	Gln	Ala	Ile	Ala	Val	Thr	Ala	Leu	Leu	Trp	Met	Glu	Ile	Gly	Ile
			180						185					190	
Ser	Cys	Leu	Ala	Gly	Met	Ala	Val	Leu	Ile	Ile	Leu	Leu	Pro	Leu	Gln
			195						200				205		
Ser	Cys	Phe	Gly	Lys	Leu	Phe	Ser	Ser	Leu	Arg	Ser	Lys	Thr	Ala	Thr
			210						215				220		
Phe	Thr	Asp	Ala	Arg	Ile	Arg	Thr	Met	Asn	Glu	Val	Ile	Thr	Gly	Ile
			225						230				235		240
Arg	Ile	Ile	Lys	Met	Tyr	Ala	Trp	Glu	Lys	Ser	Phe	Ser	Asn	Leu	Ile
				245					250					255	
Thr	Asn	Leu	Arg	Lys	Lys	Glu	Ile	Ser	Lys	Ile	Leu	Arg	Ser	Ser	Cys
			260						265					270	
Leu	Arg	Gly	Met	Asn	Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile
			275						280					285	
Val	Phe	Val	Thr	Phe	Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr
			290						295					300	
Ala	Ser	Arg	Val	Phe	Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu
			305						310					315	320

Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala  
 325 330 335  
 Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile  
 340 345 350  
 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His  
 355 360 365  
 Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr  
 370 375 380  
 Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val  
 385 390 395 400  
 Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu  
 405 410 415  
 Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile  
 420 425 430  
 Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser  
 435 440 445  
 Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val  
 450 455 460  
 Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly  
 465 470 475 480  
 Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln  
 485 490 495  
 Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile  
 500 505 510  
 Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg  
 515 520 525  
 His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr  
 530 535 540  
 Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile  
 545 550 555 560  
 Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu  
 565 570 575  
 Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn  
 580 585 590  
 Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn  
 595 600 605  
 Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro  
 610 615 620

Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro  
 625 630 635 640  
 Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln  
 645 650 655  
 Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile  
 660 665 670  
 Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln  
 675 680 685  
 Asp Trp Trp Leu Ser Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val  
 690 695 700  
 Thr Val Asn Gly Gly Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp  
 705 710 715 720  
 Tyr Leu Gly Ile Tyr Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly  
 725 730 735  
 Ile Ala Arg Ser Leu Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln  
 740 745 750  
 Thr Leu His Asn Lys Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu  
 755 760 765  
 Phe Phe Asp Arg Asn Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys  
 770 775 780  
 Asp Ile Gly His Leu Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe  
 785 790 795 800  
 Ile Gln Thr Leu Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala  
 805 810 815  
 Val Ile Pro Trp Ile Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe  
 820 825 830  
 Ile Phe Leu Arg Arg Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg  
 835 840 845  
 Leu Glu Ser Thr Thr Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser  
 850 855 860  
 Leu Gln Gly Leu Trp Thr Ile Arg Ala Tyr Lys Ala Glu Glu Arg Cys  
 865 870 875 880  
 Gln Glu Leu Phe Asp Ala His Gln Asp Leu His Ser Glu Ala Trp Phe  
 885 890 895  
 Leu Phe Leu Thr Thr Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile  
 900 905 910  
 Cys Ala Met Phe Val Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala  
 915 920 925  
 Lys Thr Leu Asp Ala Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu

930	935	940
Thr Leu Met Gly Met Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val		
945	950	955 960
Glu Asn Met Met Ile Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu		
	965	970 975
Glu Lys Glu Ala Pro Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp		
	980	985 990
Pro His Glu Gly Val Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser		
	995	1000 1005
Pro Gly Gly Pro Leu Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser		
	1010	1015 1020
Gln Glu Lys Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser		
1025	1030	1035 1040
Leu Ile Ser Ala Leu Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp		
	1045	1050 1055
Ile Asp Lys Ile Leu Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys		
	1060	1065 1070
Lys Met Ser Ile Ile Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met		
	1075	1080 1085
Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp		
	1090	1095 1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro		
1105	1110	1115 1120
Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val		
	1125	1130 1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn		
	1140	1145 1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr		
	1155	1160 1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr		
	1170	1175 1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys		
1185	1190	1195 1200
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr		
	1205	1210 1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln		
	1220	1225 1230
Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg		
	1235	1240 1245



Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser  
1250 1255 1260

<210> 539  
<211> 10  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 539  
Cys Leu Ser His Ser Val Ala Val Val Thr  
1 5 10

<210> 540  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 540  
Ala Val Val Thr Ala Ser Ala Ala Leu  
1 5

<210> 541  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 541  
Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu  
5 10

<210> 542  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 542  
Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
5 10 15

<210> 543  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 543  
Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val  
5 10

<400> 544  
Thr Tyr Val Pro Pro Leu Leu Glu Val Gly Val Glu Glu Lys Phe  
                  5                      10                      15

```
<210> 545
<211> 18
<212> PRT
<213> Homo sapiens
```

```
<400> 545
Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
          5              10              15
```

```
<210> 546
<211> 29
<212> PRT
<213> Homo sapiens
```

<400> 546  
Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly  
              5                10                    15

Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met  
20 25

```
<210> 547
<211> 58
<212> PRT
<213> Homo sapiens
```

<400> 547  
Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu  
                    5                10                15

Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu  
20 25 30

Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys  
35 40 45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu  
50 55

200

<210> 548  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 548  
Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu  
                  5                  10                  15

Glu Cys

<210> 549  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 549  
Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg  
                  5                  10                  15

Gln Ala

<210> 550  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 550  
Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe  
                  5                  10

<210> 551  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Made in a lab

<400> 551  
Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala  
                  5                  10

<210> 552  
<211> 2577  
<212> DNA  
<213> Homo sapiens

<400> 552  
agcatatgta acatgacctg tgcttcagtg ttcttttgtg atcaaaaatt ccttactttt 60  
agttttttat ctatggtaga accaccacaga gcaggggtcc tcaactocca ggccacagac 120  
tcataccagt ccacggacta ttatgaacca caccacacag gaggaggtga gcactaggca 180  
agccaaggaa gtttcacctg tacttaacagc cacacgccat ggctcatatt acagcctgaa 240

```

ctctgcctcc actcagatca gtgataacat tagaaactca ttggagcacg aaccctgttg 300
tgaactgcct atccgaagga tctaggttgt gtgcttcgta tgagaatcta atgccagatg 360
atctatcatt gtctcacttt gccccagat aagaccatct agttgcagaa aaataagctc 420
agagcttcca ctgattctac attatggata tgtgccgccg aagcaagcac aaagccctac 480
ttttacacat gcctagtgat gcttcatgga caaggcttgg ctctgttgag tccaactaac 540
ctacctgaga ttctgagatt tctcttcaat ggcttccctgt gagctagagt ttgaaaatat 600
cttaaaatct tgagctagag atggaagtag cttggacgat ttccattatc atgtaaatcg 660
ggctactcaa ggggccaacc acagctggga gccactgctc aggggaaggt tcatatggga 720
ctttctactg cccaagggtc tatacaggat ataaagggtc ctcacagtat agatctggta 780
gcaaagaaga agaaacaac actgatctct ttctgccacc cctctgacct tttggaactc 840
ctctgacctt ttagaacaag cctacctaat atctgctaga gaaaagacca acaacggcct 900
caaaggatct cttaccatga aggtctcagc taattcttgg ctaagatgtg ggttccacat 960
taggttctga atatgggggg aagggtcaat ttgctcattt tgtgtgtgga taaagtcagg 1020
atgccagggg gccagagcag ggggctgctg ctttgggaac aatggctgag catataacca 1080
taggtatggg aacaaaaaac atcaaagtca ctgtatcaat tgccatgaag actcgaggga 1140
cctgaatcta ccgattcatc ttaaggcagc agggaccagt tgagtggcaa caatgcagca 1200
gcagaatcaa tggaaacaac agaattgatt caatgtcctt tttttctcc tcttctgac 1260
ttgataaaag ggaccgtctt ccttggattt agtgaacccc tttggttcct gaaaaattca 1320
aggagtatct aggacatagt cccagaaga cagtacaaga ctttctgata aactggacat 1380
ttcaagrocc aaataactaa tcagaaaaat caaagatgtg atactatttt ttatcccatg 1440
catagtgctt acacttggat caaatgaaca atgttgggat ctytatggat aaaggtctta 1500
aaagtcttga gataaagaat cctgcaccca ctggtacttc taacttgtct tgttttttgt 1560
ctgwtttctg gctgatgcag gggactaact cactgccacg cgaaaactac ctgaactgaa 1620
ctatgacatc tcacctgata tgtaagatgt aactgttata attattttaa acctcaattt 1680
agcattaaact agccttttaa tgtaaacact tacacattat gaygactaga aacagcatac 1740
tctctggccg tctgtccaga tagatcttga gaagatacat caatgttttg ctcaagtaga 1800
aggctgacta tacttgccga tccacaacat acagcaagta tgagagcagt tctaaaatga 1860
cagagatagg aacagtaata aagttattkt aaaagctaatt ttgatatact ttaccaattt 1920
aacatcttgc ctgtccgtgc agaatacaac atttacatgc actaaaagac ataagcatct 1980
tcagtgtcca agtggttcac tttgtaaaat accaccaagg ttaaaaggaa gggacaaaaa 2040
aaaaaaaccc tcttatctca gtggggtatt gcatagcaga agctactaat ttgaagtcct 2100
ttgatggaca agaaacaata ttagggccac ttatctgaaa tgaacaaaga ttttaagtga 2160
gatttcatca cagcttccct agactgatat gctgtaatag aaaatcagct agggggtaaa 2220
ataaataaga gctctctgca tgctgaaagc aagtaagatt aataataatg gtaagaatag 2280
tagtcacagg agtttcagtt aatgatgcc aataagcatgt gctaggcact gaattaaatg 2340
ccacatatat ctttcttatg cgcagcaaac tttgaaggat atattctcct acttttcata 2400
tatgacaaca tatttggtgg taaataacgt tcccaaggct acacacctag caagtaagaa 2460
agttaggaat taaacccagt attgtgtgaa tctaaagcct aacttttttc tctttatcac 2520
ccacctacgg cttgtcttca ttaaaggaaa agtgtatcca cttaaaaaaa aaaaaaa 2577

```

&lt;210&gt; 553

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 553

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys  
5 10 15

Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly  
20 25 30

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr  
35 40 45

Glu Pro His His Thr Gly Gly Gly Glu His  
50 55

<210> 554  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 554  
Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile  
                  5                  10                  15  
Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val  
                  20                  25                  30  
Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro  
          35                  40                  45  
Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu  
          50                  55

<210> 555  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 555  
Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln  
                  5                  10                  15  
Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser  
                  20                  25                  30  
Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp  
          35                  40                  45  
Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro  
          50                  55                  60  
Ser Asp Pro Leu Glu Leu Leu  
          65                  70

<210> 556  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 556  
Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr  
                  5                  10                  15  
Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr  
          20                  25                  30  
Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly  
          35                  40                  45  
Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile

```
<210> 557
<211> 54
<212> PRT
<213> Homo sapiens
```

```
<400> 557  
Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu  
                    5                      10                      15  
  
Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu  
                20                      25                      30  
  
Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys  
        35                      40                      45  
  
Gly Phe His Ile Arg Phe  
    50
```

```
<210> 558
<211> 77
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> VARIANT  
<222> (1)...(77)  
<223> Xaa = Any amino acid
```

```

<400> 558
Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
      5                               10                      15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
      20                               25                      30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
      35                               40                      45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
      50                               55                      60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
      65                               70                      75

```

```
<210> 559
<211> 50
<212> PRT
```

<213> Homo sapiens

<400> 559

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser  
5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala  
20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala  
35 40 45

Pro Arg  
50

<210> 560

<211> 56

<212> PRT

<213> Homo sapiens

<400> 560

Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly  
5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr  
20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn  
35 40 45

Thr Asp Leu Phe Leu Pro Pro Leu  
50 55

<210> 561

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(57)

<223> Xaa = Any amino acid

<400> 561

Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys  
5 10 15

Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser  
20 25 30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn  
35 40 45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn  
50 55

```
<210> 563
<211> 79
<212> PRT
<213> Homo sapiens
```

```
<210> 564
<211> 64
<212> PRT
<213> Homo sapiens
```

```

<400> 564
Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
                    5              10              15

Glu Arg Asp Gln Cys Leu Phe Leu Leu Leu Cys Tyr Gln Ile Tyr Thr
          20              25              30

```



Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser  
           35                          40                          45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro  
           50                          55                          60

<210> 565  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (1)...(57)  
 <223> Xaa = Any amino acid

<400> 565  
 Leu Tyr Tyr Cys Ser Tyr Leu Cys His Phe Arg Thr Ala Leu Ile Leu  
                           5                          10                          15

Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln  
                           20                          25                          30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu  
           35                          40                          45

Tyr Ala Val Ser Ser Xaa His Asn Val  
           50                          55

<210> 566  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 566  
 Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg  
                           5                          10                          15

Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His  
                           20                          25                          30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro  
           35                          40                          45

Leu Lys Leu Val Leu Leu Pro  
           50                          55

<210> 567  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 567  
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu

207

5 10 15  
 Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile  
 20 25 30  
 Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile  
 35 40 45  
 Phe Arg Thr  
 50

<210> 568  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 568  
 Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile  
 5 10 15  
 Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu  
 20 25 30  
 Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr  
 35 40 45  
 Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp  
 50 55 60  
 Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu  
 65 70 75

<210> 569  
 <211> 4809  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
 gcatccagag tgggtgactg gttacaggct atgaacctac actgatgcgg caccaccacc 60  
 cagagtccac rggttatggt gggtcacatt tactcttgct gtggtatggt ctatagggtt 120  
 ggacagatgt ccgataatcc tttttacatt ttggcatcct tgggtagctc gtctttagg 180  
 aatggacttg cttcaaagtg gaggcaggca gacccctcag acgggtatat ggagccctgt 240  
 tttcagttgc ttttctaatt ctctcttata gtttacctca aaatcttcct gaggtctcgc 300  
 ttccttttaa aatccttgct tactttgcag catcactctg acaactcccat tgattcctca 360  
 gcacctactg actacacggt taggagtga agggtagaat tcatgtttta ttcattcttg 420  
 ggtctgtagc acccagcaaa gtgctcagta aatgcgcagt aattgatttg acctctgaac 480  
 aaatacacac tgtactaaga atctacacac cgaaagacaa aaacaagaca aatttgagtg 540  
 ctacagggtg cagcgttggc atcacacatg tgctctgtga ttcctctagg tggttaccag 600  
 gagctctgcc actgcatgct cactagtgc ggggtcgctc caccaccca gctgggtagc 660  
 cgctgctctc acataagggg tccaattaaa attgccagga ataaattccc cgggactttg 720  
 acttctcaag agctaagaag gtttgctgag tattctggca tgatgttttg tgatcaaaca 780  
 actgctggcc aaaaatgatg agtatttccc cctcttgctg aagatgtgct ccatacaata 840  
 gtccatcaca ttcattcatc atcagtctgg aagtgtgcag aacaacatgt aatagataat 900  
 atgattggct gcacacttcc agactgatga atgatgaatg tgatggacta ttgtatggag 960  
 cacatcttca gcaagagggg gaaatactca tcattttatc tattacatgt tggtctggtt 1020

tttttttttt	tccaatgtcc	agcctaaact	ataaagtact	ttgagaacgc	acagtgagcc	1080
ataagcttgc	caataaagag	tcctctgtgg	tatggaaactg	gcttatttca	tacacaatct	1140
gcaacaatg	agggcactat	tggaaacata	ctgtgctgca	cagagcattt	acaccgctta	1200
tctttaatct	tccccagcaa	tccttgcttt	gtgcgcattt	atgatccttg	ctctcagaag	1260
tccacatact	tttccccaac	cgtaacaaat	tatttaactc	atctaatagt	tgtatgtccg	1320
cgcagtctga	aaacagtaat	tgtccttggg	aagaagtgg	tttaagagag	ctctaggcca	1380
ctcatcacia	ctccagccct	gccctccatg	tggtagcagc	tctttggact	ggggctaagt	1440
gcttattctt	gtgcttcatt	cctggtaagc	tcaatttctt	taccttagga	taactttgct	1500
ggaaaagggc	tcagattcag	ccgaccattg	tggcctctgt	ggctgtcaca	gcttgtccct	1560
gacatgctat	gatgttgggt	ccccttctca	tccccttggg	atttcttctg	ctggcccaca	1620
gccagaacaa	ctaggccttt	tactccacca	tccccttgtt	ttcttttgtt	tcgttggtaa	1680
aaatcaatcc	ttctaccatc	catgcatagc	aatttctaaa	aactgaattt	caagagcagt	1740
atctgaagaa	acaaacatga	tttggctcct	ttagtaaaaa	gaataaattt	taataaatca	1800
actttgaaat	agttgtaaga	gttaagaaaa	agcacaaaac	tgagatcatt	agagcagctt	1860
ggcctcaaa	gacaggcagc	aggattctac	agggtttgag	ccttcctaag	tgaagctgtt	1920
tccctgcaggc	tccctgctcc	aagctcctag	ctaacagccc	cttctcccac	gattggcaac	1980
aaagagcaaa	aataactttg	tacttgatgc	tgagtcagtg	taaaaagcca	taaaaaattc	2040
cctctaaatg	tcaaaatggt	tgcctccttt	gaggcttctc	tcctcctact	gggtctggat	2100
aaattagcac	tgggtctata	ttgagtcaca	gatctgggcc	ctgccacaga	gagcttcttc	2160
ctagtgtgtg	atgctttttc	tccaaactat	tgatacaaaa	tgactggaa	tagaaatcaa	2220
cagaaactgg	tcaaaggtgt	ggcatacaca	ttctcatgta	gatgtaaagc	tgtgcttaga	2280
attcctttgt	ggagtctgg	ttggtcttgg	ttttcttgg	gtttgattca	tttttttacg	2340
taaattacaa	aaacctccca	catttcttca	tggattgtat	tagtccatgt	tctccagaga	2400
agcagaacga	gttggatgta	tgttttggaa	gagattatga	ggaaccggct	catgtgatga	2460
aggaggttga	gaggtcctgt	gctctgccat	ctgcaagctg	aagacctgga	aagctgaggg	2520
tgtggctcca	gtctgagtct	gaaggcccaa	gaaccagggg	aaccaacggt	gtagattcca	2580
ggttgaaggc	aggagaagat	ggatgtccca	gctcagcagg	caggcaggaa	gcaaattggg	2640
taaattcctc	cttctcccac	cttttgttcc	attcaggcct	tcaacagatt	ggatgagcgc	2700
ccccccaccc	ccacactagg	gagggccatc	tgctttactg	agtcggctga	gtcaagtgcc	2760
agcctcatcc	caaaacactc	tccagacaca	cgcagaaatg	tttcatctgg	gcacctgtg	2820
gccagtcatt	ctgacacaca	gaactaacca	tgacatggat	tcttcttaaa	gcagtgatag	2880
gagcgaacag	aaacattttc	ataattttca	attattttta	atgaaaacta	tatctgaggg	2940
aattgtttaa	acctagtctg	gccacacatt	atttcttggg	accgcccctc	cttcaatccc	3000
ttggacactg	atgactttat	gccagatta	actggaggc	ctgtgctgat	tttctaacac	3060
atacctgcaa	ctgagctggc	aaaaagaaaa	ctaggcaagt	atgacagata	catgatgcac	3120
aggctaagt	caaaggaaag	aaaaacacca	actgcaggga	tgagggactc	acccttttag	3180
aagtttctac	ttgagcagct	agaagactac	aatgccactc	atcaaaacag	tgactcaggg	3240
ggagtatttg	ggataaagga	ggaatctgat	gttggaggtc	aaatttgaag	tgtctttaag	3300
acctacaggt	aacgagacag	ctggacaaac	acatggaact	caggacaaag	gctctaagga	3360
cagcacagca	gctgacatcc	tgtgtgacag	ccttgaaagc	agcaggccc	ccgctcacat	3420
tttggaagg	aaaatgggta	caatgttgtc	tgccactttg	ggccttctt	gggtcacatg	3480
cattttacat	ttatgcagtt	gatataattt	tgtttcctgg	gtcttttata	cattagacac	3540
catgattctc	aatcctttgt	tattttgtat	tacaaaaagc	tgaattatta	tttcaaatat	3600
gggcaaatta	gagccttcca	tattgccaag	gtgtatcaac	cactatgata	ycaygatctc	3660
tcttttgaat	tagttttcca	gttccacact	accatttatt	tcatgattgg	tttcagactt	3720
gttctcctctg	gaaacactcc	ctaacaagca	cccttgagg	aatgaagaca	caccacacac	3780
atctacccca	ttactgcatg	tactcaagag	tcagctttta	tatgatctct	cccaagtgtc	3840
cctataatgg	ggatctttca	ctcaccctaa	agtggaggaa	aaataacttg	aagcatgagc	3900
ccagtgcctg	taggtgtgca	attaacctca	gaccaaggaa	gtgccgaacg	catctggctt	3960
ttagcaaggc	acctgacaaa	gtccttcagg	atgtttttgt	acatgagcta	gagaaatgta	4020
cctggagaac	agcttctact	gccagatgat	cttactcaaa	agatgcagat	taagcaaaat	4080
atcaacccaa	aggggtgtcc	ctgatggccc	accagcccct	gtgcctggct	cgtttcctat	4140
gtttcctaga	tttggtttca	gacttgctcc	tcctgcagac	actccctaac	cagcatcctt	4200
gcagaaaact	ggtgaactag	aaaaggcctg	tgtgggtcac	gtggccaccc	aacaccacag	4260
cagtgtctaa	ggtatgcgtg	ggagcctgca	cagcaggagc	gggtcttct	ggagaccgc	4320
atgagatgca	aagggcagtg	gacaaggagc	caagggagg	ggctctagtc	acgctgggtat	4380
ggtgccagct	tgaggatgct	gggcaagtcc	cagccgtct	gccttcttag	taccacagtt	4440
accactgtct	gttacctcgc	gagttcaagt	gcttcacgtg	agacagctac	gagacaggcc	4500

```

cctggaaact ggaaaatgcy aagtaaatgt catgcacaat tgttggtcac attttatctc 4560
aatcactttt accaaatcag gctaaaccct gggtattcat aacgtcttgg gctgtacaaa 4620
ttgttccttg aatgactca gagacatttt ctgaattggc ttccatcagc caagcatttc 4680
ttcagaactg gaaaaatgct ttaaatattg ctttgtcatg attattaaaa cactctgtac 4740
attttttatt attgaaatta acacattgcc tactttttta aaattggaaa aagaaaaaaa 4800
aaaaaaaaa 4809

```

<210> 570  
 <211> 951  
 <212> DNA  
 <213> Homo sapiens

```

<400> 570
aaaattgaat attgagatac cattcttttag tgttaccttt tttaccaca tgtgtttctg 60
aaaatattgg aattttattc atcttaaaaa ttggaccggg ccttatttac catctttaat 120
ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaate ttcagaaagt 180
tatatatcta ttttatttta tttttttgag acagagtctc gctgtgtcac ccaggctgga 240
gtgcgggtgcc acaatcttgg ctcaactgcaa cctctgagtc ccaggttcaa gcgatactca 300
tgccctggcc tcctgagtag ctgggactac aggcgtgcac caccacatct ggctaactct 360
tttttgtatt ttagtagag acgggttttc actgtgtctt ccactcctct acctcgtgat 420
ccgcctgcct cccaaagtgc tgggattaca ggcattgagc accgcacaca gctgggactg 480
ggtaatttat aaagaaaaga ggtttaatga ctacagttc cgcattggct gagaggcctc 540
aggaaactta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatggtggc 600
aggagagaac gagtgggggg ggagactgcc aaaaactttt tttttttgag acaagagtct 660
ggccctgttg cccaggctgg agtgcagtgg catgatctca gctcactgca acctctgcct 720
cacaggttca agcaattctc atgcctcagc ctcccgcata gctgggacca caggatgca 780
ccaccacacc tagctaattt ttgtagtatt agtagagatg gggctctact atgttgctca 840
ggctgggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgtctg 900
ggttacaggc ataagccacc acatccagcc tgccacatac ttttaaacta t 951

```

<210> 571  
 <211> 819  
 <212> DNA  
 <213> Homo sapiens

```

<400> 571
cagcttaaaa atgggtttctt gaaatcagtg attagcattc actcaccagt acccctacta 60
aggggtaggc actggtttgt actcctggga atacaggagt acaccagaat ttattttctgc 120
ttattgcttt tgttgcaaat gccgtggctt catctgagga attctagaat tcagagggtg 180
tagccctcca ctctgctgtc ttgctatctg ctctcattgc atccgtttta cctgcattct 240
gaaagatggt tctcaggttt ttccttgacg attttcttct tttctgattc tgacaatgtt 300
ttaaatcatt gtactgtggt tatcatttct ctgcatttat tttaccatc ttcctttgta 360
acttgtccta ttgtctttta atttctgcct gttctttatg gctttcaact tcataaataa 420
catgttttct caaatctctt tgtgaattcc agagagggcc aggcacggtg gctcacatct 480
gtaatcccag cactttgggg aggctgagac ggggtggatca cttgagggtc ggagtttgag 540
accagcctgg ccaacatggt gaaatcccgt ttcactaaaa atacaaaaat taccaggca 600
tggtggcggg gcctgtaat cccagggtact cgggaggctg agggaggaga atcgcttgaa 660
cctgggaggc tgaggggagga gaatcgcttg aacccgggag gcagagggtt cagtgaaccg 720
agatcatggt gctgcactcc agcctgggtc acagagcaag actctgcctc aaaaacaaac 780
aaataaacia acaaaacaaac aaaacagaga gattttgct 819

```

<210> 572  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

```

<400> 572
tatagaatac tcaagctatg catcaagctt ggtaccgagc tcggatccac tatttacggc 60

```

210

cgccagtgtg ctggaattcg cccttagctc ggatccacta gtccagtgtg gtggaattcc 120  
 attgtgttg gcccaacaca atggagccac cacatccagc ctgccacata cttttaaaact 180  
 atcaggtctc atgagaactc atg 203

<210> 573  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 573  
 Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg  
                           5                          10                          15  
 Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg  
                           20                          25                          30  
 Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu  
                           35                          40                          45  
 Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu  
                           50                          55                          60  
 Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala  
                           65                          70                          75                          80  
 Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly  
                           85                          90                          95  
 Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro  
                           100                          105                          110  
 Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile  
                           115                          120                          125  
 Leu Leu Asn Tyr  
                           130

<210> 574  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 574  
 Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn  
                           5                          10                          15  
 His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln  
                           20                          25                          30  
 Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu  
                           35                          40                          45  
 Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala  
                           50                          55                          60

<210> 575

211

<211> 76  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 575

Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp  
5 10 15

Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu  
20 25 30

Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly  
35 40 45

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp  
50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys  
65 70 75

<210> 576  
<211> 68  
<212> PRT  
<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(68)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 576

Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr  
5 10 15

Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr  
20 25 30

Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln  
35 40 45

Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn  
50 55 60

Pro Gly Tyr Ser  
65

<210> 577  
<211> 57  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 577

Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg  
5 10 15

Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro

Arg Leu Ala Pro Pro Ala Asp Thr Pro  
50 55

```
<210> 578
<211> 51
<212> PRT
<213> Homo sapiens
```

<400> 578  
Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu Leu Tyr Ile Arg His  
                  5                  10                  15

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr  
20 25 30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr  
35 40 45

Gln Pro His  
50

```
<210> 579
<211> 56
<212> PRT
<213> Homo sapiens
```

<400> 579  
Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu  
5 10 15

Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr  
20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His  
35 40 45

Ile Ala Lys Val Tyr Gln Pro His  
50 55

```
<210> 580
<211> 67
<212> PRT
<213> Homo sapiens
```

<400> 580  
Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser  
5 10 15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys  
20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser  
35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser  
50 55 60

Phe Ile His  
65

<210> 581  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 581  
Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu  
5 10 15

Thr Ala Gly Gln Thr His Gly Thr Gln Asp Lys Gly Ser Lys Asp Ser  
20 25 30

Thr Ala Ala Asp Ile Leu Cys Asp Ser Leu Glu Ser Ser Arg Pro Ala  
35 40 45

Ala His Ile Leu Glu Gly Lys Met Gly Thr Met Leu Ser Ala Thr Leu  
50 55 60

Gly Pro Ser Trp Val Thr Cys Ile Leu His Leu Cys Ser  
65 70 75

<210> 582  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 582  
Met Leu Phe Leu Gln Thr Ile Asp Thr Lys Cys Thr Gly Ile Glu Ile  
5 10 15

Asn Arg Asn Trp Ser Lys Val Trp His Thr His Ser His Val Asp Val  
20 25 30

Lys Leu Cys Leu Glu Phe Leu Cys Gly Val Trp Phe Gly Leu Gly Phe  
35 40 45

Leu Gly Val  
50

<210> 583  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 583



Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
5 10 15  
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
20 25 30  
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
35 40 45  
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
50 55 60

<210> 584  
<211> 76  
<212> PRT  
<213> Homo sapiens

<400> 584  
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys  
5 10 15  
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg  
20 25 30  
Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro  
35 40 45  
Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly  
50 55 60  
Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys  
65 70 75

<210> 585  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 585  
Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu  
5 10 15  
Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp  
20 25 30  
Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu  
35 40 45  
Leu Phe  
50

<210> 586  
<211> 60  
<212> PRT  
<213> Homo sapiens



```
<210> 589
<211> 157
<212> PRT
<213> Homo sapiens
```

```
<400> 589
Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
      5                                10                               15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
      20                        25                      30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
      35                        40                      45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
      50                        55                      60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
      65                        70                      75

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
      85                        90                      95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
      100                       105                     110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
      115                       120                     125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
      130                       135                     140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
      145                       150                     155
```

```
<210> 590
<211> 347
<212> PRT
<213> Homo sapiens
```

<400> 590  
Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr  
5 10 15

Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr  
 20 25 30  
 Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys  
 35 40 45  
 Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys  
 50 55 60  
 Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly  
 65 70 75 80  
 Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln  
 85 90 95  
 Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala  
 100 105 110  
 Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser  
 115 120 125  
 Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys  
 130 135 140  
 Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser  
 145 150 155 160  
 Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp  
 165 170 175  
 Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile  
 180 185 190  
 Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr  
 195 200 205  
 Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala  
 210 215 220  
 Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu  
 225 230 235 240  
 His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn  
 245 250 255  
 Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His  
 260 265 270  
 Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val  
 275 280 285  
 Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile  
 290 295 300  
 Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg  
 305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser  
 325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile  
 340 345

<210> 591  
 <211> 565  
 <212> DNA  
 <213> Homo sapien

<400> 591  
 actaaagcaa atgaacaagc tgacttgcta gtatcatctg cattcattga agcacaagaa 60  
 cttcatgcct tgactcatgt aaatgcaata ggattaaaaa ataaatttga tatcacatgg 120  
 aaacagacaa aaaatattgt acaacattgc acccagtgtc agattctaca cctggccact 180  
 caggaagcaa gagttaatcc cagaggtcta tgtcctaattg tggtatggca aatggatgtc 240  
 atgcacgtac cttcatttgg aaaattgtca tttgtccatg tgacagttga tacttattca 300  
 catttcatat gggcaacctg ccagacagga gaaagtactt cccatgttaa aagacattta 360  
 ttatcttgtt ttcctgtcat gggagttcca gaaaaagtta aaacagacaa tgggccaggt 420  
 tactgtagta aagcatttca aaaattctta aatcagtgga aaattacaca tacaatagga 480  
 attctctata attcccaagg acaggccata attgaaggaa ctaatagaac actcaaagct 540  
 caattgggta aacaaaaaaa aaaaa 565

<210> 592  
 <211> 188  
 <212> PRT  
 <213> Homo sapien

<400> 592  
 Thr Lys Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile  
 1 5 10 15  
 Glu Ala Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu  
 20 25 30  
 Lys Asn Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln  
 35 40 45  
 His Cys Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg  
 50 55 60  
 Val Asn Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val  
 65 70 75 80  
 Met His Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val  
 85 90 95  
 Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser  
 100 105 110  
 Thr Ser His Val Lys Arg His Leu Ser Cys Phe Pro Val Met Gly  
 115 120 125  
 Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys  
 130 135 140  
 Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly  
 145 150 155 160  
 Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg  
 165 170 175  
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys  
 180 185

<210> 593  
 <211> 271

<212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(271)  
 <223> n = A,T,C or G

<400> 593  
 actttatggt cnagtgcana aanccnctg gattgccacc ntactctcag ggctgtgant 60  
 tgtgcnccca nagcaacctg ggacgcggg gacagggggg ccnacaattg agggagcggg 120  
 gtccttagct ggggtctata catgncggg naagggcngc tgagtnccat nagcaaagga 180  
 nctagnatnt gcgggggtgc ggctgggcc taccctttna agcatcctn gatccactcc 240  
 angaancng gggtagncag gtttnccaac a 271

<210> 594  
 <211> 376  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(376)  
 <223> n = A,T,C or G

<400> 594  
 cctttggggg nggggggaac ctttaccatt gtncccttt atttcattg gttnggggtc 60  
 gcgcctcnn gggccaacaa agttatcgt nttgaagaga anattttttt ggnttgncc 120  
 cgattaagcg ncaaagtgt agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180  
 cgattcgacg acaaggcgt n ggcgntanc gttagtctc aatngaccn gtggcatgag 240  
 cccacgangg ntctgtgtc tcacatggnc tctagacata acgcnccn ttttttncag 300  
 agggggntgc cgcccttagg gaggnaggg tggggacact agccaancca nantctnacc 360  
 ccattgaaga aaaggn 376

<210> 595  
 <211> 242  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(242)  
 <223> n = A,T,C or G

<400> 595  
 agnctgctg tcgtnccctn tatgtggctt catnntgagg acaanagtng cactgaggct 60  
 tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaanggg 120  
 atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttctcc 180  
 acccctnaaa ntttnggcta caangnccat tttctttt ctcttaaggg ncnctggct 240  
 tc 242

<210> 596  
 <211> 535  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature

<222> (1)...(535)

<223> n = A,T,C or G

<400> 596

accagttgga	tactgctaaa	nagatattta	tgcagcctca	tatgttaagt	cgtatatttt	60
gaaagctttt	taaatttttt	ctttaagaag	attttagatg	cttatcactg	agtaccagag	120
ggatgtaggc	tgatgccctt	atcaacaaag	tcagggactg	tggcacacaa	ggattgacta	180
ctgcagacac	ggccacaatg	ctacctctag	agggcctgaa	tccccctgcc	ctctctgggtg	240
gggagaaggg	ctggcagagc	cattagcatg	ggctccggcc	aatcctggcc	actttgacac	300
tcctggtgct	gacccagggg	cctggaggaa	gggatgaggt	gggcagtaga	gatgctcagg	360
gcagtggccc	ctttccatcc	acactggaac	tatttcagta	ttttaccacc	aattcagcca	420
ttcccttggtg	cgctggctga	acatcagccc	tgctccaggt	ctcagtttcc	cctttgtaaa	480
gggaaagctc	tggattcagg	gagtgatgaa	gaggtcatca	tggctcttgag	aattc	535

<210> 597

<211> 257

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(257)

<223> n = A,T,C or G

<400> 597

tttcnatacc	caaaantacc	ccatattang	accanacatt	tgtctnggaa	aaattaccat	60
tntntaacnt	ttgggccacc	tgagannaaa	tgggtgtaat	ncatgataag	atggancagn	120
attnctctta	agatnngatn	agaccccggt	tttcacggaa	catatccaag	nacccaatag	180
gnaacaagcc	acgggngggag	tcacaaacat	atattcttta	ctctcataat	ccgtnnacaa	240
naactnttgn	acttgac					257

<210> 598

<211> 222

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(222)

<223> n = A,T,C or G

<400> 598

nntggntacc	gtcnaaactt	nncttggtac	cagagctcgg	atccactagt	ccagtgtggt	60
ggaattccat	tgtgttgggc	tataagctgt	aatagtggag	ncgtgctngg	ttcattgcan	120
nagncctcc	gcanncacnc	ttgnnacaac	ctgtgagnag	gcnataaatt	attcacataa	180
tcactactgc	atgaanctga	ctcaaacgca	tccacntaca	cc		222

<210> 599

<211> 238

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(238)

<223> n = A,T,C or G

<400> 599

gcatgacatc	ancgatgtnt	ttggnnacct	ganattngct	aaaactngng	natgccgggn	60
atgnaggttt	ggtantgac	tatgcactca	catctcatgg	ggacgtttca	tgtggagtgn	120
tcgacaangt	tgctgnancn	gagaagtgat	gatctcagtt	gaaaggggtca	tgtgaataca	180
cnntacactt	gaaaaagaag	cacattggga	atatcacgaa	acgnccacca	acatcctg	238

<210> 600  
 <211> 232  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(232)  
 <223> n = A,T,C or G

<400> 600	
cgaactat	60
tactcatcag	120
cagaaagctg	180
aatcgcaaat	232

<210> 601  
 <211> 547  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(547)  
 <223> n = A,T,C or G

<400> 601	
cattgtgttg	60
tttttcttaa	120
gcggaagaca	180
ctnatattct	240
catgtaatcc	300
nctggatnaa	360
gcagcccngg	420
nnagcaaggc	480
tacataaaaag	540
tgccatt	547

<210> 602  
 <211> 826  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(826)  
 <223> n = A,T,C or G

<400> 602	
cggggggnnt	60
taccattcga	120
gaacaatgcg	180
tagctagcta	240



222

ctcgttttga	gttacaaact	ccgcggatta	catgtctttt	taaaaaagtt	tagactacac	300
tagggaaaaa	tatttttagta	tcagaagaat	atcagggggt	gtagtactca	tcagagctna	360
atgagagcgc	tttaaaaaatg	ttagtttgtc	ttccgccatt	tctacagaaa	gctgcaattt	420
caggttttca	ncctaatagg	tgatatntaa	gaaaaaaaaa	acaatcgcan	atagcccact	480
gcttttacaa	atcatttttc	tcttctaggt	atagcctgtc	agggtggccta	atgtattttt	540
gacatctcta	ggaatttttaa	tagaccagaa	atgggtgcca	gagatatgcc	tgcactaatc	600
ttaagtgggg	atttatgtat	ttctcaanca	agtgattaaa	gcaaaactag	gcacgaatga	660
aatcaagatc	tttaggccag	aatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaaccce	naaggtctga	ataccceagc	780
nccctgaacn	anagaacaan	gccggagcac	cccctcccaa	atcccc		826

&lt;210&gt; 603

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(817)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 603

nnangacttt	tgtggtntta	tacaattntt	ttttctattt	ctatgaagag	aaagccacag	60
agtccataaa	taattctaaa	actcatcatg	actttcttgc	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt	180
agtgcaggca	tatctctggc	acccatttct	ggttctatta	aaattcctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaatttgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgctctc	420
atttagctct	gatgagtact	acaccctcta	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcactctag	aggatcgcga	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	gnaaanaaag	acatctgcag	cctagggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttcctanaa	caaggcngaa	ttgggactcg	aatgggttcag	720
ttgggggtgg	ggatccctcg	gtncataaaa	ngtcanaaag	anggtacagg	cggaacncca	780
agggtcgtcc	tgcatttana	ctcggaattt	tggtgccc			817

&lt;210&gt; 604

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(694)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 604

cttttcaaat	catttttntc	cttctaggtta	tancctgtca	ggtggcctaa	tgtaatTTTT	60
gacatctcta	ngaatttttaa	tagaaccaga	aatgggtgcc	agagatatgc	ctgcactaat	120
cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa	agcaaaacta	ggcacgattg	180
aaatcaagat	cttttaggca	anaaagtcac	gatgagtttt	agaattattt	taggactctg	240
tggctttctc	ttcatagaaa	tagaaaaaaaa	aattgtataa	aaccacaaaa	ggtcctgaat	300
agccaagagca	acactganca	aaaagaacan	agcagggaag	caacacacta	ccngaattca	360
aattatacta	ccagggtgta	gtaacccaaa	cagcattcta	ttggcataaa	atagacacca	420
agaccaatgg	ancagaataa	agaaccccac	aaataaatcc	atatatntac	cgccanctga	480
ttatcaataa	cnaacaccaa	gaacatatnt	taagggcant	nctattcaat	aantagtgtc	540
gnaaaaaact	gggaaatcca	tatgcagaaa	naatgaaact	agacccttat	ccctcaccat	600

223

acgcaaannt caacttcgga atgggattac aaaacttaag acatticcaac ccaagaaact 660  
atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 605  
<211> 678  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(678)  
<223> n = A,T,C or G

<400> 605  
taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60  
actcatcana gctaaatgag agcgctttaa aaatgttagt ttgtcttccg ccatttctac 120  
agaaagctgc aatttcaggt tttcaaccta atagggtgata tttagaaaa aaaaaagca 180  
atcgcaata gccccactgc ttttacaat catttttct cttctaggta tagcctgtca 240  
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300  
agagatatgc ctgcactaat cttaagtggg gatattatgta tttctcaagc aagtgattaa 360  
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420  
anaattattt taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480  
aaaaccacaa aaggtcctga atagcccaaa gcaacactga acaaaaangaa caaagcagga 540  
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600  
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaataaat 660  
cctatattta cngccnc 678

<210> 606  
<211> 263  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(263)  
<223> n = A,T,C or G

<400> 606  
gtggggtcng canagccaa ctcagcttcc tttcgggctt tgtagcaga cggatcatcc 60  
tctagtcac tgtgntcaaa ttccattgtg tgggggcnc tcgcctcggc canagatctg 120  
agtgancana cntgtcccca ctgaggtgcc ccacagcngn ttgtnttcag cangggctna 180  
caactcgacc ggcagcngn ggctggcaga antgngcgc tnnctcatc ctacgngtn 240  
ngccgcagga aggangacag gcc 263

<210> 607  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 607  
ccatgtgggt cccggttgct tt 22

<210> 608  
<211> 22  
<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 608

gataggggtg ctcaggggtt gg

22

<210> 609

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 609

gctggacagg gggcaaaagc tggggcagtg aacctatgtgc

40

<210> 610

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 610

ccttgatccag atagcccagt agctgac

27

<210> 611

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 611

gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc

46

<210> 612

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 612

gcacatgggt cactgcccc gcttttgccc cctgtccagc

40

<210> 613

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

&lt;223&gt; Primer

&lt;400&gt; 613

gccgctcgag ttagaattcg gggttggcca cgatgggtg

38

&lt;210&gt; 614

&lt;211&gt; 53

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 614

cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca

53

&lt;210&gt; 615

&lt;211&gt; 46

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 615

gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

&lt;210&gt; 616

&lt;211&gt; 1350

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 616

atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctgcagccc	60
tggcaggcgg cactggtcat ggaaaacgaa ttgttctgct cgggcgtcct ggtgcatccg	120
cagtgggtgc tgtcagccgc aactgtttc cagaactcct acaccatcgg gctgggcctg	180
cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta	240
cggcaccag agtacaacag acccttgctc gctaaccgacc tcatgctcat caagttggac	300
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc	360
gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc	420
gtgctgcagt gcgtgaacgt gtcgggtggtg tctgaggagg tctgcagtaa gctctatgac	480
ccgctgtacc accccagcat gttctgcgcc ggccgagggc aagaccagaa ggactcctgc	540
aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc	600
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtct acaccaacct ctgcaaattc	660
actgagtggg tagagaaaac cgtccaggcc agtattgtgg gaggtgga gtgcgagaag	720
cattcccaac cctggcaggt gcttgtggcc tctcgtggca gggcagctctg cggcgggtgtt	780
ctggtgcacc cccagtgggt cctcacagct gccactgca tcaggaacaa aagcgtgatc	840
ttgctgggtc ggcacagcct gtttcatcct gaagacacag gccaggtatt tcaggtcagc	900
cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca	960
ggtgatgact ccagccacga cctcatgctg ctccgcctgt cagagcctgc cgagctcacg	1020
gatgctgtga aggtcatgga cctgcccacc caggagccag cactggggac cacctgctac	1080
gcctcaggct ggggcagcat tgaaccagag gagttcttga ccccaaagaa acttcagtgt	1140
gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcacctca gaaggtgacc	1200
aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaacctgt	1260
gccctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag	1320
gacaccatcg tggccaaccc cgaattctaa	1350

&lt;210&gt; 617

<211> 449  
 <212> PRT  
 <213> Homo sapien

<400> 617

Met	His	His	His	His	His	His	Ile	Ile	Asn	Gly	Glu	Asp	Cys	Ser	Pro
1				5					10					15	
His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met	Glu	Asn	Glu	Leu	Phe
		20						25					30		
Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Ser	Ala	Ala	His
		35					40					45			
Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly	Leu	His	Ser	Leu	Glu
	50					55					60				
Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu	Ala	Ser	Leu	Ser	Val
65				70						75					80
Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu
				85					90					95	
Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu	Ser	Asp	Thr	Ile	Arg	Ser	Ile
			100					105					110		
Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala	Gly	Asn	Ser	Cys	Leu	Val	Ser
		115					120					125			
Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg	Met	Pro	Thr	Val	Leu	Gln	Cys
	130					135						140			
Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu	Val	Cys	Ser	Lys	Leu	Tyr	Asp
145					150					155					160
Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys	Ala	Gly	Gly	Gly	Gln	Asp	Gln
				165					170					175	
Lys	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Ile	Cys	Asn	Gly
			180					185					190		
Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly	Lys	Ala	Pro	Cys	Gly	Gln	Val
	195						200					205			
Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys	Phe	Thr	Glu	Trp	Ile
	210					215						220			
Glu	Lys	Thr	Val	Gln	Ala	Ser	Ile	Val	Gly	Gly	Trp	Glu	Cys	Glu	Lys
225					230					235					240
His	Ser	Gln	Pro	Trp	Gln	Val	Leu	Val	Ala	Ser	Arg	Gly	Arg	Ala	Val
				245					250					255	
Cys	Gly	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val	Leu	Thr	Ala	Ala	His
			260					265					270		
Cys	Ile	Arg	Asn	Lys	Ser	Val	Ile	Leu	Leu	Gly	Arg	His	Ser	Leu	Phe
	275						280					285			
His	Pro	Glu	Asp	Thr	Gly	Gln	Val	Phe	Gln	Val	Ser	His	Ser	Phe	Pro
	290					295					300				
His	Pro	Leu	Tyr	Asp	Met	Ser	Leu	Leu	Lys	Asn	Arg	Phe	Leu	Arg	Pro
305					310					315					320
Gly	Asp	Asp	Ser	Ser	His	Asp	Leu	Met	Leu	Leu	Arg	Leu	Ser	Glu	Pro
				325					330					335	
Ala	Glu	Leu	Thr	Asp	Ala	Val	Lys	Val	Met	Asp	Leu	Pro	Thr	Gln	Glu
			340					345						350	
Pro	Ala	Leu	Gly	Thr	Thr	Cys	Tyr	Ala	Ser	Gly	Trp	Gly	Ser	Ile	Glu
		355					360					365			
Pro	Glu	Glu	Phe	Leu	Thr	Pro	Lys	Lys	Leu	Gln	Cys	Val	Asp	Leu	His
	370					375					380				
Val	Ile	Ser	Asn	Asp	Val	Cys	Ala	Gln	Val	His	Pro	Gln	Lys	Val	Thr
385					390					395					400
Lys	Phe	Met	Leu	Cys	Ala	Gly	Arg	Trp	Thr	Gly	Gly	Lys	Ser	Trp	Gly
				405					410					415	
Ser	Glu	Pro	Cys	Ala	Leu	Pro	Glu	Arg	Pro	Ser	Leu	Tyr	Thr	Lys	Val

420 425 430  
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu  
 435 440 445

Phe

<210> 618  
 <211> 3923  
 <212> DNA  
 <213> Homo sapien

<400> 618  
 acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agattttgtgt 60  
 ggctgcagcc gagggagacc aggaagatct gcatgggtggg aaggacctga tgatacagag 120  
 gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta 180  
 gtccgctgtg agtctcctca gtgacacagg gctggatcac catcgacggc actttctgag 240  
 tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa 300  
 ggctgctgac tttaccatct gaggccacac atctgctgaa atggagataa ttaacatcac 360  
 tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag 420  
 cccctttaaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga 480  
 aatgcccgcc cgccatcttg ggtcatcgat gaggctcgcc ctgtgcctgg tcccgttgt 540  
 gagggaagga cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga 600  
 tcctgttgtg gatatttatt tgaacgggat tacagatttg aaatgaagtc acaaagttag 660  
 cattaccaat gagaggaaaa cagacgagaa aatcttgatg gcttcacaag acatgcaaca 720  
 aacaaaatgg aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg 780  
 gcagaggggc aggtattctg ccctgctgcc taaactgtgc gttcataacc aaatcatttc 840  
 atatttctaa ccctcaaaac aaagctgttg taatatctga tctctacggg tccttctggg 900  
 cccaacattc tccatatatc cagccacact catttttaat atttagttcc cagatctgta 960  
 ctgtgacctt tctacactgt agaataacat tactcatttt gttcaaagac ccttcgtgtt 1020  
 gctgcctaata atgtagctga ctgtttttcc taaggagtgt tctggcccag gggatctgtg 1080  
 aacaggctgg gaagcatctc aagatctttc cagggttata cttactagca cacagcatga 1140  
 tcattacgga gtgaattatc taatcaacat acctctcagt gtctttgccc atactgaaat 1200  
 tcatttccca cttttgtgcc cattctcaag acctcaaaat gtcattccat taatatcaca 1260  
 ggattaaactt ttttttttaa cctggaagaa ttcaatgtta catgcagcta tgggaattta 1320  
 attacatatt ttgttttcca gtgcaaagat gactaagtcc tttatccctc ccctttgttt 1380  
 gatttttttt ccagtataaa gttaaaatgc ttagccttgt actgaggctg tatacagcac 1440  
 agcctctccc catccctcca gccttatctg tcatcaccat caacccctcc cataccacct 1500  
 aaacaaaatc taacttgtaa ttccttgaaac atgtcaggac atacattatt ccttctgcct 1560  
 gagaagctct tccttgctctc ttaaactctag aatgatgtaa agttttgaat aagttgacta 1620  
 tcttacttca tgcaaagaag ggacacatat gagattcatc atcacatgag acagcaataa 1680  
 ctaaaagtgt aatttgatta taagagttaa gataaatata tgaaatgcaa gagccacaga 1740  
 gggaatgttt atggggcacg tttgtaagcc tgggatgtga agcaaaggca gggaacctca 1800  
 tagtatctta tataatatac ttcatttctc tatctctatc acaatatcca acaagctttt 1860  
 cacagaattc atgcagtga aatccccaaa ggtaaccttt atccatttca tgggtgagtgc 1920  
 gctttagaat tttggcaaata catactggtc acttatctca actttgagat gtgtttgtcc 1980  
 ttgtagttaa ttgaaagaaa tagggcactc ttgtgagcca ctttaggggt cactcctggc 2040  
 aataaagaat ttacaaagag ctactcagga ccagttgtta agagctctgt gtgtgtgtgt 2100  
 gtgtgtgtgt gagtgtacat gccaaagtgt cctctctctc cttgacccat tatttcagac 2160  
 ttaaaacaag catgttttca aatggcacta tgagctgcca atgatgtatc accaccatat 2220  
 ctcatatttc tccagtaaat gtgataataa tgtcatctgt taacataaaa aaagtttgac 2280  
 ttcacaaaag cagctggaaa tggacaacca caatatgcat aaatctaact cctaccatca 2340  
 gctacacact gcttgacata tattgttaga agcacctcgc atttgtgggt tctcttaagc 2400  
 aaaatacttg cattaggtct cagctggggc tgtgcatcag gcggtttgag aaatattcaa 2460  
 ttctcagcag aagccagaat ttgaattccc tcatctttta ggaatcattt accaggtttg 2520  
 gagaggattc agacagctca ggtgctttca ctaatgtctc tgaacttctg tccctctttg 2580  
 tgttcatgga tagtccaata aataatgtta tctttgaact gatgctcata ggagagaata 2640  
 taagaactct gagtgtatct aacattaggg attcaaagaa atattagatt taagctcaca 2700

ctggtcaaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgteccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcatg	tctgagatcc	ttaaatacaag	gaaaccagtg	2820
tcatgagttg	aattctccta	ttatggatgc	tagctttctg	ccatctctgg	ctctcctctt	2880
gacacatatt	agcttctagc	ctttgcttcc	acgactttta	tcttttctcc	aacacatcgc	2940
ttaccaatcc	tctctctgct	ctgttgcttt	ggacttcccc	acaagaattt	caacgactct	3000
caagtctttt	cttccatccc	caccactaac	ctgaatgcct	agacccttat	ttttattaat	3060
ttccaataga	tgctgcctat	gggctatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagagggtc	aaaatccaac	tcattatctt	ctctttcttt	cacctccctg	ctcctctccc	3180
tatattactg	attgcactga	acagcatggg	ccccaatgta	gccatgcaaa	tgagaaaacc	3240
agtggctcct	tgtggtacat	gcatgcaaga	ctgctgaagc	cagaaggatg	actgattacg	3300
cctcatgggt	ggaggggacc	actcctgggc	cttcgtgatt	gtcaggagca	agacctgaga	3360
tgctccctgc	cttcagtgtc	ctctgcatct	cccctttcta	atgaagatcc	atagaatttg	3420
ctacatttga	gaattccaat	taggaactca	catgttttat	ctgccctatc	aattttttaa	3480
acttgctgaa	aattaagttt	tttcaaaatc	tgctcctgta	aattactttt	tcttacagtg	3540
tcttggcata	ctatatcaac	tttgattctt	tgttacaact	tttcttactc	ttttatcacc	3600
aaagtggctt	ttattctctt	tattattatt	attttctttt	actactatat	tacgttggtt	3660
ttattttggt	ctctatagta	tcaattttatt	tgatttagtt	tcaattttatt	tttattgctg	3720
acttttaaaa	taagtgattc	ggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaattg	atgtgggact	taaaacctag	atgatgggtt	gatagggtgca	gcaaaccact	3840
atggcacacg	tatacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

&lt;210&gt; 619

&lt;211&gt; 3674

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 619

agaaagtttc	cttttttttt	tttaatggtg	aaaagatata	cacatattta	gaattagcca	60
gctgggctca	gtttagatta	ttccaatttt	gttggcaaca	tccagagcat	cgtaatcagg	120
agccagtga	acatattcct	tcttctctcc	atcaggccaa	atcacgggtg	tgaccttggc	180
cacatcaatg	tcttagaact	tcttcacagc	ctggttgatc	tggtgcttgt	tggttttaac	240
atccacaatg	aacacaagtg	tggtgtgtgc	ttctatcttc	ttcgtggtga	ctcagtgggc	300
agcggaaact	tgatgatagc	gtagtgggtc	agcttgatc	tcctgggagc	gctcttccaa	360
agatatttgg	gctgcctcgg	gagttgcagc	gtcttggggc	gccggaaggt	gggtgacgta	420
cggatcttct	ttttttgtgt	ggctgtggac	acctttcaac	actgtcttct	tgccctttaa	480
atccttcgct	ttggtttcgg	ctataggagg	ggcaggagct	tccttcttca	ctttcggcgc	540
catcttgta	aaagggaag	tttcttttct	aataccattt	tcacttctcc	cgaattttgt	600
ggatcgtttc	ttggtatcta	ccccagattt	caggagtgtt	ggctggatct	tagggattgt	660
gaagtcttca	tttccctgtg	gtgagatctg	aggcatgatt	ttaaacagtg	tgagggaagg	720
agatctccag	gcactttaat	agaatggaga	agcaggatgg	gatttgagag	gaaatctgat	780
tttgaaaaaa	ggagaactag	agttgagttc	gtaattaact	agcaccttaa	aggtcattca	840
gcatgcccat	ctgcacagtg	ggtgtaatca	ccctacagaa	caaaaaaaa	aaggcaatgg	900
agaggaaagct	gtaaagcact	gtacatgttt	aactcattgt	tatgtaagct	agccgaaggc	960
ttcacagact	tgaattcatc	tcccaagttc	tcttcctgta	ctggaaactc	tgccttaggt	1020
tgcttaaaac	ttgagaaaca	gaatattgct	tccctgcct	gccttcttga	gtacacttgc	1080
ctacacaaaag	atgcacatcc	ttgtttgtgt	gtgtgtgtcc	atttgctgtg	acattcttgt	1140
gaaagtcaaa	gtttcccagc	tggtgacata	cacaagtttg	tttgggtgca	cctgtcagat	1200
gcatccctta	gacaggccct	ttgatactct	gggaaagaca	ttggacttac	agtcggaacg	1260
aaaagaaaga	aatgtgatat	gtatagcgtg	cagtgaagtg	gagttttacc	tgtattgttt	1320
taatttcaac	aagcctgagg	actagccaca	aatgtaccca	gtttacaaat	gaggaaacag	1380
gtgcaaaaag	gttggttacct	gtcaaaaggtc	gtatgtggca	gagccaagat	ttgagcccag	1440
ttatgtctga	tgaacttagc	ctatgctctt	taaacttctg	aatgctgacc	attgaggata	1500
tctaaactta	gatcaattgc	attttccctc	caagactatt	tacttatcaa	tacaataata	1560
ccacctttac	caatctattg	ttttgatacg	agactcaaat	atgccagata	tatgtaaaag	1620
caacctacaa	gctctcta	catgctcacc	taaaagattc	ccgggatcta	ataggctcaa	1680
agaaacttct	tctagaaata	taaaagagaa	aattggatta	tgcaaaaatt	cattattaat	1740

ttttttcatc	catcctttta	ttcagcaaac	atttatctgt	tgttgacttt	atgcagtatg	1800
gccttttaag	gattggggga	caggtgaaga	acggggtgcc	agaatgcatc	ctcctactaa	1860
tgagggtcagt	acacatttgc	attttaaaat	gccctgtcca	gctgggcatg	gtggatcatg	1920
cctgtaatct	caacattgga	aggccaaggc	aggaggattg	cttcagccca	ggagttcaag	1980
accagcctgg	gcaacataga	aagaccccat	ctctcaatca	atcaatcaat	gccctgtctt	2040
tgaaaaataaa	actcctttaag	aaaggtttta	tgggcagggt	gtggtagctc	atgcctataa	2100
tacagcactt	tgggaggctg	aggcaggagg	atcactttag	cccagaagtt	caagaccagc	2160
ctgggcaaca	agtgcacact	catctcaatt	ttttaataaa	atgaatacat	acataaggaa	2220
agataaaaaag	aaaagtttaa	tgaaagaata	cagtataaaa	caaattctctt	ggacctaaaa	2280
gtatttttgt	tcaagccaaa	tattgtgaat	cacctctctg	tgttgaggat	acagaatatc	2340
taagcccagg	aaactgagca	gaaagttcat	gtactaacta	atcaaccgga	ggcaaggcaa	2400
aaatgagact	aactaatcaa	tccgaggcaa	ggggcaaat	agacggaacc	tgactctggg	2460
ctattaagcg	acaactttcc	ctctgttgta	tttttctttt	attcaatgta	aaaggataaa	2520
aactctctaa	aactaaaaac	aatgtttgtc	aggagttaca	aacctatgac	aactaattat	2580
ggggaatcat	aaaatatgac	tgtatgagat	cttgatgggt	tacaaagtgt	acccactggt	2640
aatcacttta	aacattaatg	aacttaaaaa	tgaatttacg	gagattggaa	tgtttctttc	2700
ctgttgatatt	agttggctca	ggctgccata	acaaaataacc	acagactggg	aggcttaagt	2760
aacagaaatt	catttctcac	agttctgggg	gctggaagtc	cacgatcaag	gtgcaggaaa	2820
ggcaggcttc	attctgaggc	ccctctcttg	gctcacatgt	ggccacctc	ccactgcgtg	2880
ctcacatgac	ctctttgtgc	tcctggaaag	aggggtgtgg	ggacagaggg	aaagagaagg	2940
agaggggaact	ctctggtgtc	tcgtctttca	aggaccctaa	cctggggccac	tttggcccag	3000
gcaactgtggg	gtgggggggt	gtggctgctc	tgctctgagt	ggccaagata	aagcaacaga	3060
aaaatgtcca	aagctgtgca	gcaaagacaa	gccaccgaac	agggatctgc	tcatacagtg	3120
ggggacacctc	aagtcggcca	ccctggaggc	aagcccccam	agagcccatg	caaggtggca	3180
gcagcagaag	aagggaattg	tcctgtcct	tggcacattc	ctcaccgacc	tggtagtgct	3240
ggacactgcg	atgaatggta	atgtggatga	gaatatgatg	gactcccaga	aaaggagacc	3300
cagctgctca	ggtggctgca	aatcattaca	gccttcattc	tggggaggaa	ctgggggcct	3360
ggttctgggt	cagagagcag	cccagtggag	gtgagagcta	cagcctgtcc	tgccagctgg	3420
atccccagtc	ccggtcaacc	agtaatcaag	gctgagcaga	tcaggcttcc	cggagctggg	3480
cttggaagc	cagccctggg	gtgagttggc	tcctgctgtg	gtactgagac	aatattgtca	3540
taaattcaat	gcgccttgt	atcccttttt	cttttttatt	tgtctacatc	tataatcact	3600
atgcatacta	gtctttgtta	gtgtttctat	tcmacttaat	agagatatgt	tatacttaaa	3660
aaaaaaaaaa	aaaa					3674

&lt;210&gt; 620

&lt;211&gt; 2051

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)... (2051)

&lt;223&gt; n = A, T, C or G

&lt;400&gt; 620

ggaccagggg	ctgaagtga	ccccagcac	agcacagctg	ctctataaaa	acgtggccag	60
actttttttt	ttgaagcaag	tcctgttct	tgttcgtcct	gactagtccc	atcagggccc	120
tgatcccaa	gactcagcat	ccaaggtccc	ctccagggaat	cctggcagct	cagcatactt	180
tatcctgttt	catctgagag	caaaaatgta	aaattggatg	cacagaaaaag	tgactcaaa	240
tgtctaata	ctagaagaaa	tctaggagca	gcaagaagag	caggacaaac	aggccaggcg	300
gtgtcaggag	cccaggctc	cagctggang	gaacgtcaac	cctgcagtgg	gagcaggggc	360
cctttgcaca	tcctaggcac	agatggtaat	gtagacacca	caggtaagct	gggcttggt	420
cctaccctc	cccggattca	gaaagaaacc	aaacaaggag	ctttgtgtgg	aatgaaacct	480
cctttcctcc	cagaagcact	gctgactgtt	tgggtggtgc	catttgtggc	agtgaacct	540
tgtttgttct	gaggttgggc	tgtttctcc	tcctggccct	gccctacaga	tcataaagga	600
gaacagcaag	acgtccccag	caaacatcca	cagatggcct	tggaaataag	tcaccttct	660
caccctgcag	gaatgccagt	gaacatattg	ctgacatctt	ggagctcagt	acctcatagt	720
gtaacggcgt	cagtagatct	gcctgtgctg	ggacttcctg	tactacccat	tcctgagggg	780



cgatgcttct	gcagggcctg	tgacttggtg	cacaacttca	gacaccatca	tcttgagca	840
gcaccgcacc	ctcactagcc	aggggtgtga	tgacttcctc	aaggccaagg	ccacattcaa	900
ggcttcggac	ttcattgatg	cgcttggtgct	gagcaagggtg	gcttctccgg	gatcttaatt	960
caggaggtag	aatggagctt	gagatcaagt	gtctgatcaa	gcctcagtgt	atgggcgctg	1020
ttcatcctct	ggtgctgaag	cagccaagag	acccaagtct	gcctggctgc	ctcttaggat	1080
atgacagcag	agccagtggc	ctctactaga	tcctgtacaa	cctcacaaaa	caccagaca	1140
tcgggagtgc	tgccagcctg	tgatgcaaga	gtcctaattcc	tgaagacatt	gaatgacctg	1200
tcgttggtct	gtttttacca	aaaaggatca	tgaggatcag	agaggaaaag	tcacttgccc	1260
aaagtcacac	agctgaacag	tggtggagtt	caactttgac	cgtgggctgt	ctggccccc	1320
aggtgtatgc	ttgcttctct	cccaagagac	tcctttctta	tcaggotcaa	atgaatgaaa	1380
ggaggatggt	aaagacaacg	ccattattga	cgagatcact	cccaagcgga	ttggagattg	1440
tccaatatt	tagacctata	gcaaggcctt	gggagaaatg	gtggtgcagc	aggagagcag	1500
gaacctaac	attgccatcc	taaggccctc	cattgtgtgg	agcaacgtgg	caccagcttt	1560
tcctgggttg	ggttgataat	ctaaatggat	gtagccgact	cattattgcg	gtatgtatag	1620
ggatgaagaa	gtaactgtaa	tgtagtggag	gaatagtaag	aaaattctta	gtgctggctt	1680
agcttaattg	atccaaaaac	ataaatgcta	ctttactatc	aattgaagca	tattatttca	1740
attattctgg	ttataatatg	gaggcaggat	gaaattgttt	ttattctttt	agaatttttt	1800
tttatcagga	aaacagaggt	aaagtgtctat	caattactat	ttaagagttc	tattttgaaa	1860
agtgagaatt	aaggattttt	cttttctttt	taaaaaaaac	ttttttaaaa	attaaaaata	1920
aaagaagcaa	aagtcttagg	aaaatgaagc	aagtagccct	gccactctat	gtacagtaat	1980
aacaatatct	gtcccagtta	ttatgtacaa	tattataaaa	aatgtcgcag	acagtaaaaa	2040
aaaaaaaaa	a					2051

&lt;210&gt; 621

&lt;211&gt; 2841

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(2841)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 621

gcagagcaca	gcatagctgc	tttaccaaat	catggccaga	ctgcttctgt	aagcaggccc	60
ctgatcctgt	tccacctcac	tggaaggagc	ctcccaactg	gggcctccag	ctacccccac	120
cagcatccct	tggccaatgg	aaatttgaaa	tgttcctggg	acagagctcc	tggaagagag	180
ggcaggccac	cacctttgct	gtttgggtga	ctagccgttc	tggcctgcag	gctttggaga	240
gccaagctg	acaaggggta	gaagagggtc	ctcagcacag	cacagccacg	ctacgaaaac	300
atggccagac	tcttgtttaa	gtcagtcctc	gaacacattt	ctagtcagtg	ggtgaagtct	360
ttcaaccagg	gtctctggct	accttgactg	ctgttctctg	gccgacagag	gtctcaggcc	420
tccttgagtc	agagctcccg	gggggaggac	cagattgtca	tctttgctgt	ttgggtgacc	480
cagccatttc	agccttaggg	cttcagagtg	tctgaggtag	ccaggggctg	aagtgaaccc	540
ccagcacagc	acagctgctg	tataaaaacg	tgccagact	ttttctttaa	gcaagtccct	600
gttcttattc	ctcctgacta	ggtaagactt	ctcaacttgc	ctccagccac	atcttattgg	660
tgtgttcaga	ttggcaacag	gtttgtacct	cagtgggtaca	gagctcccag	aggaaggggt	720
aggctatcat	cttccttgga	aaatacgagt	caattaggga	cttgagggga	ccccagcat	780
tccacagcag	cccttcagaa	aagtggccag	actctgtact	tgatgggcag	atcctcctgg	840
cctgtgtctc	tagccagccc	accactggag	ctatcaagcc	agtagcaact	cagcagttcc	900
ttggacagag	cttcaggag	caaatagaat	cctttctgcc	actgcctttg	cagtgaactg	960
cccttgctat	cctcagaaga	tatatcacgg	gagcaaagac	cctaagtgcc	atatcaacac	1020
ctccaataag	ctgcagttga	cccaaagaac	aagccaatcc	atctcccaca	ggttccacac	1080
acactccact	actcatcacc	agacagggaa	ccctggcttg	ggcccacagc	acagaccctc	1140
catcctgggc	cgattacact	gagtgattgc	taactcacat	gtctctggga	tggaagcccc	1200
aggagacaag	caaagtgggtg	gagcagcaag	tcagggtgatg	tggaagcccag	agggcagggga	1260
gagctatctc	tctgggctcc	acttgccctt	gtgagacact	ttgtcccagc	actccttagt	1320
ctgcttgctt	ctcccagggc	cccagcctgg	ccacacctgc	ttacagggca	ctctcagatg	1380
cccataccat	agtttctgtg	ctagtggacc	gtaccatata	agtggagagc	tgcaagcaag	1440

tggcccntac	ggccacgcac	cagcctgcac	attacctctc	catactgcag	ccctttatat	1500
ggaaacttcc	tacatcactt	tgctgtgtgt	gtttacacag	gtggattttg	ctttacttgc	1560
actgacagca	cacaggagg	cagcacacac	cccaacccac	atcaactgcc	attaaagaaa	1620
agaaatttca	gcccataatt	tcatgtccag	caaaattagg	catcataagt	gaaggagaaa	1680
taagatcctt	ttcagacaag	caaatgctga	gggaattcaa	tatcaccaga	tctaccttac	1740
aagagctcct	gaaggaagca	ctaaatatgg	aaagaaaaaa	ccatcaccag	ccactacaaa	1800
aatgcagtga	agaacgcagt	gaattacgca	gtccagtgat	gctaaaaacc	aaccacatac	1860
gttaagtctg	caaaataacc	agctgacagc	atgacgacag	gataaatcca	cacataccat	1920
tactaacctt	aaatgaaaat	gggctaaatg	ctcccattga	aagacatggg	gcaagctgga	1980
taaagaacca	agacccactg	gagtatgctg	tcttcaagaa	acccatctca	catgcggtgg	2040
catacatagg	ctcaaaataa	aggaatggag	aaaaatattt	caagcaaata	gaaaacagaa	2100
aaaagcaggt	gttgcaactcc	tactttctga	caaaacagac	tatgcgaata	aagataaaaa	2160
agagaaggac	attacaaagg	tggtcctgac	ctttgatata	tctcattgct	tgataccaac	2220
ctgggctggt	ttaattgccc	aaanccaata	ggataatttg	ctgaggttgt	ggagcttctc	2280
ccctgcagag	agtccctgat	ctcccaaaat	ttggttgaga	tgtaagggtg	atthttgctgt	2340
acaactcctt	tictgaagtt	ttactcattt	ccaaaaagga	aggcaagttt	tcctgcttcc	2400
atgacgatgg	agagcaggca	tctcctttcc	tgagtttcag	cttgcttctg	acagggaagg	2460
tgagtgttaag	ttttttccag	cttctaagat	ggcagagaac	gatcaccagc	ctgagcctta	2520
tttccaggta	agtagctgaa	ttagagttht	gtcttaaaat	ttttccttaa	tgattaaaaat	2580
gtaagattac	ccaccagctg	cttttaattt	ctcccttagc	attagaacac	tcagtaatca	2640
tatgaattgt	gcatttgtht	gttttgctta	actctttctg	tttgthtatg	tttggggttt	2700
tattgttggt	gtttcacttt	tctcccatct	cttcctgact	tggtcaaatc	caaaggaatg	2760
ttcgaaattg	tggggagcaa	ggcatctgaa	atggctaaaa	ctcctgtggc	tgcaaaaaat	2820
agaaataaaa	aaaaaaaaaa	a				2841

&lt;210&gt; 622

&lt;211&gt; 3228

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(3228)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 622

tccgccccat	tgacgcaaata	ggcggttaggc	gtgtacggtg	ggaggtctat	ataagcagag	60
ctctcnggct	aactagagaa	cccactgctt	actggcttat	cgaaattaat	acgactcact	120
ataggagagac	ccaagctggc	tagcgtttta	acttaagctt	ggtaccgagc	tcggatccac	180
tagtccagtg	tggtggaatt	ccattgtgtt	gggcaggaaa	caagcaaagt	ggtggagcag	240
caagtcagggt	gatgtggagc	ccagagggtca	gggatggctg	tctctctagg	gtccacttgc	300
ccttgtgaga	cactttatcc	cagcacttta	ggaatactga	ggtcatacca	gccacatctt	360
atatgcaaga	ttgccagca	gagatcagggt	ccgagagttc	cctttttaaa	aaaaggagac	420
ttgcttaata	aaagaagtct	agccacgttt	gtgtagagcg	gctgtgctgt	gctgggggtt	480
cacttttgag	agagttctcc	tctgagacct	gatctctgga	ggctgggcaa	tcttgcaactt	540
gagatggggc	tggtctgatc	tcagcactcc	ttagtctgct	cgcctctccc	atggccccag	600
cctggccaca	cctgcttacg	gggcactctt	agatgcccac	accataactt	ccatgctaagt	660
ggactgtacc	atatcagtggt	agagctgcag	caaggtggcc	cctagagcca	cgcaccagcc	720
tgacacattgc	ctctccatac	ggcagccctt	tatttggaaa	cttcctaaat	cactttgctg	780
tgtgtgttta	cacgggtgtg	ttttgcttta	cttgccctga	gagcacacgg	gagtgacgca	840
cacaccccaa	cccacatcaa	ctgccattaa	agaaaagaaa	tttcagccca	gaatttcatg	900
tccagcaaaa	ttaagcatca	taagtgaagg	agaaataaga	tccttttcag	acaagcaagt	960
gctgagggaa	tttggtatca	ccagatctac	cttacgagag	ctcctgaagg	aagcactaaa	1020
tatggaaaga	aaagatcatc	acctgctact	acaaaaacac	actgaagtac	acagtccaat	1080
gatgctaaaa	agcaagcaca	tatgtaagtc	tgcaaaaata	ccagctgaca	gcatgacgac	1140
aggataaaat	ccacacatac	cattactaac	cttaaatgta	aatgggctaa	atgctcccat	1200
tgaagagacac	ggggcaagct	gggtaaagaa	ccaagaccca	ctggagtatg	ccgtcttcaa	1260
gcaacccatc	tcacgtgcag	tgccatacat	aggctcaaaa	taaaggaatg	gagaaaaata	1320

tttcaagcaa	atggaaaaca	gaaaaaaggt	gttgcactcc	cagttttctga	caaaacagac	1380
tctaccaata	aagataaaaa	aagagaagga	cattacaaag	gtggctcctga	cctttgataa	1440
atctcattat	tgcttgatac	caacctgggc	tatttgtatt	gccccaaacga	ataggataat	1500
ttgctgaggt	tgtggagctt	ctccccttca	cagagtcctc	gatctccgaa	aatttggttg	1560
agatgtaagg	ttgatttttg	tgtacaactc	cttttttgaa	gttttactca	tttccaacaa	1620
ggaaggcaag	ttttcctgct	tccattgaca	aaggagagca	ggcacctcct	ttcctgagtt	1680
tcagcttgct	tctgacaggg	aaggagcttt	gagatttgaa	tactggcctg	ctgggttttg	1740
gacgtgcatt	gggcctgtgg	tcccatttgt	gttatttttc	tgggaaattt	cttccttttg	1800
gagtgagaaa	gcttacccaa	tgcctgtacc	atcatcgtag	cttaaaagaa	ctccatttta	1860
agttcagggg	ctccttgcca	gaagagaccg	tagccttgta	tcagatcata	aaggagaaga	1920
gcaagaggtc	cccgccaaac	atccacagat	ggccttgga	ataagtcacc	ttgtcaccc	1980
tgcaggaatg	ccagtgaact	tattgctgac	atcttgagc	tcagtaccct	catagtgtaa	2040
cggcgtcagc	agatctgcct	gtgctgggac	ttcctgtact	acccattcct	gagggcgat	2100
gcttctgcag	ggcctgtgac	ttggtgcaca	acttcagaca	ccatcatctt	gcagcagcac	2160
cgcaccctca	ctagccaggg	tgttgatgac	ttcctcaagg	ccaaggccac	attcaaggct	2220
tcggacttca	ttgatgcgct	tgtgctgagc	aagggtggctt	ctccgggac	ttaattcagg	2280
aggtagaatg	gagcttgaga	tcaagtgtct	gatcaagcct	cagtgtatgg	gcgctgttca	2340
tcntctgggtg	ctgaagcagc	caagagaccc	aagtctgcct	ggctgcntct	taggatatga	2400
cagcagagcc	agtggcctct	actagatcct	gtacaacctc	acaaaacacc	cagacatcgg	2460
gagtgtgtcc	agcctgtgat	gcaagagtc	taatcctgaa	gacattgaat	gacctgtcat	2520
tctgtctgtt	ttaccaaaaa	ggatcatgag	gatcagagag	gaaaagtcac	ttgcccaag	2580
tcacacagct	gaacagtgg	ggagttcaac	tttgaccgtg	ggctgtctga	ccccagggtg	2640
tatgcttgct	tctctcccaa	gagacaactt	tcttatcagg	ctcaaatgaa	tgaaggagg	2700
atgttaaagg	taggatctct	gaagcctgtg	ccagtggaa	cgcagctcat	ggctggcacc	2760
tgtgttctca	ttcttacctc	attaagagta	aagtttattg	agtttattga	atttaagtat	2820
ctttagttag	atcatatatt	attagtaaga	actgggacca	aacagatttt	ctgactctaa	2880
aagagagatt	ttcacagaaa	cagatatata	cctgtaagta	tacagacacg	catacacaca	2940
tttctttact	gctcataaaa	attagtcctt	attagaatgt	gggatgtata	aatgtaagag	3000
aattttcatg	ttaaaattga	cagatacatt	tttaaattgt	cctaaaataa	atttaattat	3060
ttttntttta	gaattttcca	ttattaatgt	tatttttatg	agaaactata	taactttatt	3120
gataatacat	acaataaccc	tttgtttttc	aaattgaaaa	tacagtgtat	tttgcaataa	3180
actaagtcct	aattttgtat	taaaatttta	aattttcaaa	aaaaaaaa		3228

&lt;210&gt; 623

&lt;211&gt; 4894

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 623

ctgcacgcgc	tggctccggg	tgacagccgc	gcgcctcggc	caggatctga	gtgatgagac	60
gtgtccccac	tgaggtgcc	cacagcagca	ggtgttgagc	atgggctgag	aagctggacc	120
ggcaccdaag	ggctggcaga	aatgggcgcc	tggctgattc	ctaggcagtt	ggcggcagca	180
aggaggagag	gccgcagctt	ctggagcaga	gccgagacga	agcagttctg	gagtgccctga	240
acggccccct	gagccctacc	cgcctggccc	actatgggtc	agaggctgtg	ggtgagccgc	300
ctgctgcggc	accggaaaagc	ccagctcttg	ctggtcaacc	tgctaaccct	tggcctggag	360
gtgtgttttg	ccgcaggcat	cacctatgtg	ccgcctctgc	tgctggaagt	gggggtagag	420
gagaagtcca	tgaccatggt	gctgggtgag	tcactacatc	ctccttcctt	cctgttccag	480
atacatgcca	cctggcatgt	gggacaggag	tacctctgcc	ctgggagctg	cttggaggga	540
gagtggtct	gctgggaagg	cattgctggg	caggagggtg	acctggggct	gagggggcac	600
accaagagaa	agaagagaat	accaaggaca	taccccagtc	acctctggat	ccctggtcct	660
gcacagagcc	tggctcatag	gagacactgg	agaaatgctc	ctaacccttg	gctagccctt	720
ttataattta	tagcgattat	ctcattttaat	gcttacaacc	accatttgag	gtgatccatt	780
ttacagagaa	ggaagcagag	gcttttaaga	ggttaggtaa	gtcttagcca	aagccaaata	840
gcagctgaac	agtagagctg	ggactccatc	aagggtctcc	agccggagct	tgctcctacc	900
cctaggacaa	ggggtggact	cctgactctg	cagataaatt	ctacaaaagc	cacagaaggc	960
aagtagtaac	cattgtgtga	caaccctca	ccccaggaa	gaggggccc	tgtgaggatt	1020
gcaggctctg	gagtcacact	gcttgttgaa	acgctgcctc	ttaccctccc	taggtctgcg	1080

```

cctttgaata agtatcactt cttagtgtgt ccatgcctca gtttgtccat ctgaaaatgg 1140
gggcatctgt aatgcctgtg ttatgaggag taaattacag catccctgtg aagacgtagc 1200
acagtgtcga gtacggaatg ttatttccat ccttctcacg gagcttggtt ccccttcccc 1260
ttgcccttta cttgtcccag ccattgactc atactacttc ccttcttgca ggcattgggtc 1320
cagtgtctgg cctgggtctgt gtcccgtccc taggtcagc cagtgaccac tggcgtggac 1380
gctatggccg ccgcccggcc ttcactgtgg cactgtcctt gggcatcctg ctgagccctc 1440
ttctcatccc aaggccgggc tggctagcag ggctgtctgt ccgcatccc aggccccctg 1500
agctggcact gctcatcctg ggcgtggggc tgcgtgactt ctgtggccag gtgtgcttca 1560
ctccactgga ggcctgtctc tctgacctct tccgggaccc ggaccactgt cgccaggcct 1620
actctgtcta tgccttcatg atcagtcttg ggggtgcctt gggctacctc ctgcttgcca 1680
ttgactggga caccagtgcc ctggccccct acctgggcac ccaggaggag tgctctttg 1740
gctgtctcac cctcatcttc ctcacctgcg tagcagccac actgctgggt gctgaggagg 1800
cagcgtctgg ccccaaccgag ccagcagaag ggctgtcggc cccctccttg tcgccccact 1860
gctgtccatg ccgggcccgc ttggctttcc ggaacctggg cgccctgctt ccccggtgc 1920
accagctgtg ctgccgcatg ccccgacccc tgcgcgggtt cttcgtgggt gagctgtgca 1980
gctggatggc actcatgacc ttcacgctgt tttacacgga tttcgtgggc gaggggctgt 2040
accagggcgt gccacagact gagccgggca ccgaggcccg gagacactat gatgaaggta 2100
aggccttggc agccagcaga ggctgggtgt ggagccggcc accagagacg aactcgggg 2160
ctgtgtctgg gctgggtgct ctccatcctg gccccgactt ctctgtcagg aaagtgggga 2220
tggaccccat ctgcatacac ggcttctcat ggggtgtgga catctctgct tcggtttca 2280
ggaaggcctc tggctgtctt aggagtctga tcagagtcgt tgccccagtt tgacagaagg 2340
aaaggcggag cttattcaaa gtctagaggg agtggaggag ttaaggctgg atttcagatc 2400
tgctgtgttc cagccgcagt gtgccctctg ctccccaaac gactttccaa ataactcac 2460
cagcgccttc cagctcaggc gtctagaag cgtcttgaag cctatggcca gctgtctttg 2520
tgttccctct caccgcctg tctcacagc tgagactccc aggaacctt cagactacct 2580
tctctgcct tcagcaaggg gcgttgccca cattctctga gggtcagtgg aagaacctag 2640
actcccattg ctagaggtag aaaggggaag ggtgctgggg agcagggtg gtccacagca 2700
ggtctcgtgc agcaggtagc tgtgggtccg ccttctcatc tccctgagac tgctccgacc 2760
cttccctccc aggtctgtc tgatggcccc tctccctctg caggcgttcg gatgggcagc 2820
ctgggctgt tctgtcagt cgccatctcc ctggtcttct ctctggtcat ggaccggctg 2880
gtgcagcgat tcggcactcg agcagtcctt tggccagtg tggcagctt ccctgtgct 2940
gccgtgcca actgcctgtc ccacagtgt gcctgggtga cagcttcagc cgccctcacc 3000
gggttcacct tctcagccct gcagatcctg ccctacacac tggcctccct ctaccaccgg 3060
gagaagcagg tgttcctgcc caaataccga ggggacactg gagtgctag cagtgaggac 3120
agcctgatga ccagcttctt gccaggccct aagcctggag ctcccttccc taatggacac 3180
gtgggtgtyg gaggcagtgg cctgtcccca cctccaaccg cgctctgcgg ggcctctgcc 3240
tgtgatgtct ccgtacgtgt ggtgggtggg gagcccaccg aggccagggt ggttccgggc 3300
cggggcatct gcctggacct cgccatcctg gatagtgcct tctgtctgtc ccagggtggc 3360
ccatccctgt ttatgggtc cattgtccag ctccagcagt ctgtcactgc ctatatggtg 3420
tctgcgcag gccctgggtc ggtcgccatt tactttgcta cacaggtagt atttgacaag 3480
agcgacttgg ccaaatactc agcgtagaaa acttccagca cattggggtg gagggcctgc 3540
ctcactgggt cccagctccc tgctcctgtt agccccatgg ggctgcggg ctggccgcca 3600
gtttctgttg ctgcaaaagt aatgtggctc tctgtgcca ccctgtgtg ctgagggtgcg 3660
tagctgcaca gctgggggct ggggcgtccc tctcctctct ccccagctc tagggctgcc 3720
tgactggagg ccttccaagg gggtttcagt ctggacttat acaggaggag cagaagggt 3780
ccatgcactg gaatgcggg actctgcagg tggattaccc aggtcagggt ttaacagcta 3840
gcctcctagt tgagacacac ctagagaagg gtttttggga gctgaataaa ctcagtcacc 3900
tggtttccca tctctaagcc ccttaacctg cagcttcgtt taatgtagct cttgcatggg 3960
agtttctagg atgaaacact ccaccatggg atttgaacat atgaaagtta tttgtagggg 4020
aagagtccct aggggcaaca cacaagaacc aggtccctc agcccacagc actgtctttt 4080
tgctgatcca cccctctctt accttttctc aggatgtggc ctgttggtcc ttctgttgcc 4140
atcacagaga cacaggcatt taaatattta acttatttat ttaacaaagt agaagggaat 4200
ccattgctag cttttctgtg ttggtgtcta atatttgggt aggggtgggg atccccaa 4260
atcagggtccc ctgagatagc tggtcattgg gctgatcatt gccagaatct tcttctcctg 4320
gggtctggcc ccccaaaatg cctaaccagg gaccttgaa attctactca tccaaatga 4380
taattccaaa tgctgttacc caaggttagg gtgttgaagg aaggtagagg gtggggcttc 4440
aggtctcaac ggcttcccta accaccctc ttctcttggc ccagcctggt tccccccact 4500
tccactcccc tctactctct ctaggactgg gctgatgaag gcactgcccc aaatttcccc 4560

```

```

tacccecaac tttccctac ccccaacttt ccccaccagc tccacaaccc tgtttggagc 4620
tactgcagga ccagaagcac aaagtgcggt ttcccaagcc tttgtccatc tcagccccc 4680
gagtatatct gtgcttgggg aatctcacac agaaactcag gagcaccccc tgccctgagct 4740
aagggaggtc ttatctctca gggggggttt aagtgcggtt tgcaataatg tcgtcttatt 4800
tatttagcgg ggtgaatatt ttatactgta agtgagcaat cagagtataa tgtttatggt 4860
gacaaaatta aaggttttct tatatgttta aaaa 4894

```

&lt;210&gt; 624

&lt;211&gt; 2904

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 624

```

gtctatgcct tcatgatcag tcttgggggc tgccctgggct acctcctgcc tgccattgac 60
tgggacacca gtgccctggc cccctacctg ggcacccagg aggagtgcct ctttggcctg 120
ctcacccctca tcttcctcac ctgcgtagca gccacactgc tgggtggctga ggaggcagcg 180
ctgggccccca ccgagccagc agaagggtcg tgggccccct ccttgtcgcc ccactgctgt 240
ccatgccggg cccgcttggc tttccggaac ctgggcgccc tgcttccccg gctgcaccag 300
ctgtgctgcc gcctgccccg caccctgcgc cggctcttcg tggtgagct gtgcagctgg 360
atggcactca tgaccttcac gctgttttac acggatttcg tgggcgaggg gctgtaccag 420
ggcgtgcccc gagctgagcc gggcaccgag gcccggagac actatgatga aggaaggcct 480
ctggctgctc taggagtctg atcagagtcg ttgccccagt ttgacagaag gaaaggcggg 540
gcttattcaa agtctagagg gagtggagga gtttaaggctg gatttcagat ctgcctgggt 600
ccagcgcagc tgtgccctct gctcccccaa cgaactttcca aataatctca ccagcgctt 660
ccagctcagg cgtcctagaa gcgctctgaa gcctatggcc agctgtcttt gtgttccctc 720
tcacccgcct gtcctcacag ctgagactcc caggaaacct tcagactacc ttccctctgcc 780
ttcagcaagg ggcgttgccc acattctctg agggcgcttc gatgggcagc ctggggctgt 840
tcctgcagtg cgccatctcc ctggtcttct ctctggtcac ggaccggctg gtgcagcgat 900
tcggcactcg agcagctctat ttggccagtg tggcagcttt ccctgtggct gccggtgcca 960
catgcctgtc ccacagtgtg gccgtggtga cagcttcagc cgccctcacc gggttcacct 1020
tctcagccct ccagatcctg cctacacac tggcctccct ctaccaaccg gagaagcagg 1080
tgttcctgcc caaataccga ggggacactg gaggtgctag cagtgaggac agcctgatga 1140
ccagcttccct gccaggccct aagcctggag ctcccttccc taatggacac gtgggtgctg 1200
gaggcagtg cctgtcccca cctccaccg cgctctgcgg ggccctgcc tgtgatgtct 1260
ccgtacgtgt ggtggtgggt gagccaccg aggccagggt ggttccgggc cggggcatct 1320
gcctggacct cgccatcctg gatagtgcct tcctgtgtgc ccaggtggcc ccacccctgt 1380
ttatgggctc cattgtccag ctccagccagt ctgtcactgc ctatatggtg tctgccgcag 1440
gcctgggtct ggtcgccatt tactttgcta cacaggtagt atttgacaag agcgactgg 1500
ccaaatactc agcgtagaaa acttccagca cattgggggt gagggcctgc ctactgggt 1560
ccagctccc cgctcctgtt agcccatgg ggctgcggg ctggccgcca gtttctgttg 1620
ctgcaaaagt aatgtggctc tctgctgcca ccctgtgtg ctgaggtgcg tagctgcaca 1680
gctgggggct ggggcgtccc tctcctctct cccagctctc tagggctgcc tgactggagg 1740
ccttccaagg gggtttcagt ctggacttat acagggaggg cagaagggct ccatgcactg 1800
gaatgcgggg actctgcagg tggattaccc aggcctcagg ttaacagcta gcctcctagt 1860
tgagacacac ctagagaagg gtttttggga gctgaataaa ctcagtcacc tggtttccca 1920
tctctaagcc ccttaacctg cagcttcggt taatgtagct cttgcatggg agtttctagg 1980
atgaaacact cctccatggg atttgaacat atgaaagtta tttgtagggg aagagtccctg 2040
agggcaaca cacaagaacc aggtcccctc agcccacagc actgtctttt tgctgatcca 2100
ccccctctt accttttctc aggatgtggc ctgttgggtc ttctgttgcc atcacagaga 2160
cacaggcatt taaatattta acttatttat ttaacaaagt agaagggaat ccattgctag 2220
cttttctgtg ttggtgtcta atatttgggt aggggtgggg atccccaca atcaggtccc 2280
ctgagatagc tgggtcattg gctgatcatt gccagaatct tcttctcctg gggctctggc 2340
ccccaaaatg cctaaccag gacottggaa attctactca tcccaaatga taattccaaa 2400
tgctgttacc caaggttagg gtgttgaagg aaggtagagg gtggggcttc aggtctcaac 2460
ggcttcctta accaccctc ttctcttggc ccagcctggt tcccccaact tccactcccc 2520
tctactctct ctaggactgg gctgatgaag cactgcccc aaatttcccc tacccecaac 2580
tttccctac ccccaacttt ccccaccagc tccacaaccc tgtttggagc tactgcagga 2640

```

ccagaagcac aaagtgcggt ttcccaagcc tttgtccatc tcagcccccagc gagtatatct 2700  
 gtgcttgagg aatctcacac agaaactcag gagcaccccc tgcctgagct aaggagagtc 2760  
 ttatctctca gggggggttt aagtgcggtt tgcaataatg tcgtcttatt tatttagcgg 2820  
 ggtgaatatt ttatactgta agtgagcaat cagagtataa tgtttatggt gacaaaatta 2880  
 aaggctttct tatatgttta aaaa 2904

<210> 625

<211> 4034

<212> DNA

<213> Homo sapiens

<400> 625

aaccagcctg cacgcgctgg ctccgggtga cagccgcgcg cctcggccag gatctgagtg 60  
 atgagacgtg tccccactga ggtgccccac agcagcaggt gttgagcatg ggctgagaag 120  
 ctggaccggc accaaagggc tggcagaaat gggcgccctgg ctgattccta ggcagttggc 180  
 ggcagcaagg aggagaggcc gcagcttctg gagcagagcc gagacgaagc agttctggag 240  
 tgcctgaacg gccccctgag cctaccgcgc ctggcccaact atggtccaga ggctgtgggt 300  
 gagccgcctg ctgcggcacc ggaaagccca gctcttgcct gtcaacctgc taacctttgg 360  
 cctggaggtg tgtttggccg caggcatcac ctatgtgccg cctctgctgc tggaaagtggt 420  
 ggtagaggag aagttcatga ccatggtgct gggcattggt ccagtgtctg gcctgtgtct 480  
 tgtcccgctc ctaggctcag ccagtgaacca ctggcggtga cgtatggcc gccgcgggcc 540  
 ctctcatctg gcactgtcct tgggcatcct gctgagcctc tttctcatcc caaggccggc 600  
 ctggctagca gggctgctgt gcccgatcc caggcccctg gagctggcac tgctcatcct 660  
 gggcggtggg ctgctggact tctgtggcca ggtgtgcttc actccactgg aggcctgtct 720  
 ctctgacctc ttccgggacc cggaccactg tcgccaggcc tactctgtct atgccttcat 780  
 gatcagctct gggggctgcc tgggctacct cctgctgcc attgactggg acaccagtgc 840  
 cctggccccc tacctgggca cccaggagga gtgcctcttt ggctgtctca cctcatctt 900  
 cctcacctgc gtagcagcca cactgctggt ggctgaggag gcagcgctgg gccccaccga 960  
 gccagcagaa gggctgtcgg cccctccttt gtcgcccac tgcctgtccat gccgggcccg 1020  
 cttggctttc cggaaacctg gcgcctgtct tccccggctg caccagctgt gctgccgat 1080  
 gccccgcacc ctgcgcgggc tcttcgtggc tgagctgtgc agctggatgg cactcatgac 1140  
 cttaacgctg ttttacacgg atttcgtggc cgaggggctg taccagggcg tgcccagagc 1200  
 tgagccgggc accgagggcc ggagacacta tgatgaaggt aaggccttgg cagccagcag 1260  
 aggtgtgtgt gggagccgcc caccagagac gacactcggg gctgtgtctg ggctgtgtcc 1320  
 tctccatcct gggcccgact tctctgtcag gaaagtggg atggaccca tctgcataca 1380  
 cggcttctca tgggtgtgga acatctctgc ttgcggtttc aggaaggcct ctggctgtct 1440  
 taggagctct atcagagtcg ttgccccagt ttgacagaag gaaaggcgga gcttattcaa 1500  
 agtctagagg gagtggagga gtttaaggctg gatttcagat ctgcctggtt ccagccgag 1560  
 tgtgccctct gctccccaa cgactttcca aataatctca ccagcgctt ccagctcagg 1620  
 cgtcctagaa gcgtcttgaa gcctatggc agctgtcttt gtgttccctc taccgcct 1680  
 gtccctacag ctgagactcc caggaaacct tcagactacc ttctctgcc ttacgaagg 1740  
 ggcgttgccc acattctctg aggtcagtg gaagaaccta gactccatt gctagagta 1800  
 gaaaggggaa ggggtgctgg gagcagggct ggtccacagc aggtctctgt cagcaggtac 1860  
 ctgtgggttc gccttctcat ctccctgaga ctgctccgac ccttccctcc caggctctgt 1920  
 ctgatggccc ctctccctct gcaggcgttc ggatgggcag cctggggctg ttctgtcagt 1980  
 gcgccatctc cctggtcttc tctctggtca tggaccggct ggtgcagcga ttccggcact 2040  
 gagcagctta tttggccagt gtggcagctt tccctgtggc tgccggtgcc acatgcctgt 2100  
 cccacagtgt ggcctgtgtg acagcttcag ccgcccac cgggttcacc ttctcagccc 2160  
 tgagatcct gcccacaca ctggcctccc tctaccaccg ggagaagcag gtgttctctc 2220  
 ccaaataccg aggggacact ggaggtgcta gcagtggaga cagcctgatg accagcttcc 2280  
 tgccaggccc taagcctgga gctcccttcc ctaatggaca cgtgggtgct ggaggcagt 2340  
 gctgctccc acctccacc gcgctctgcg gggcctctgc ctgtgatgtc tccgtacgtg 2400  
 tgggtgtggg tgagcccacc gaggccaggg tggttccggg ccggggcatc tgccctggac 2460  
 tcgccatcct ggatagtgcc ttctgtctgt cccaggtggc cccatccctg tttatgggt 2520  
 ccattgtcca gctcagccag tctgtcactg cctatatggt gtctgccgca ggccgtgggt 2580  
 tggtcgccat ttactttgct acacaggtag tatttgacaa gagcgacttg gccaaatact 2640  
 cagcgtagaa aacttcacgc acattgggggt ggagggcctg cctcactggg tcccagctcc 2700

```

ccgctcctgt tagccccatg gggctgccgg gctggccgcc agtttctgtt gctgccaaag 2760
taatgtggct ctctgtgcc accctgtgct gctgaggtgc gtagctgcac agctgggggc 2820
tggggcgctc ctctcctctc tccccagtct ctagggtgc ctgactggag gccttccaag 2880
ggggtttcag tctggactta tacagggagg ccagaagggc tccatgcact ggaatgcggy 2940
gactctgcag gtggattacc caggctcagg gttaacagct agcctoctag ttgagacaca 3000
cctagagaag ggtttttggg agctgaataa actcagtcac ctggtttccc atctctaagc 3060
cccttaacct gcagcttcgt ttaatgtagc tcttgcattg gagtttctag gatgaaacac 3120
tcctccatgg gatttgaaca tatgaaagt atttgtaggg gaagagtcct gaggggcaac 3180
acacaagaac caggctccct cagcccacag cactgtcttt ttgctgatcc acccccctct 3240
taccttttat caggatgtgc ctgttggtcc ttctgttgcc atcacagaga cacaggcatt 3300
taaataattt acttatttat ttaacaaagt agaagggaat ccattgctag cttttctgtg 3360
ttggtgtcta atatttgggt aggggtgggg atcccccaaca atcagggtccc ctgagatagc 3420
tggtcattgg gctgatcatt gccagaatct tcttctcctg ggtctggcc ccccaaaatg 3480
cctaaccag gaccttgaa attctactca tcccaaatga taattccaaa tgctgttacc 3540
caaggttagg gtgttgaagg aaggtagagg gtggggcttc aggtctcaac ggcttcccta 3600
accaccctc ttctcttgcc ccagcctggt tcccccaact tccactcccc tctactctct 3660
ctaggactgg gctgatgaag gcaactgccc aaatttcccc taccaccaac tttcccctac 3720
ccccacttt cccaccagc tccacaaccc tgtttgagc tactgcagga ccagaagcac 3780
aaagtgcggt ttcccaagcc ttgttccatc tcagcccccga gagtatatct gtgcttgggg 3840
aatctcacac agaaactcag gacaccccc tgccctgagct aaggagggtc ttatctctca 3900
gggggggttt aagtgcggt tgcaataatg tcgtcttatt tatttagcgg ggtgaatatt 3960
ttatactgta agtgagcaat cagagtataa tgtttatggt gacaaaatta aaggctttct 4020
tatatgttta aaaa 4034

```

&lt;210&gt; 626

&lt;211&gt; 6976

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 626

```

gaagctggac cggcaccaaa gggctggcag aaatgggccc ctggctgatt cctaggcagt 60
tgccggcagc aaggaggaga ggccgcagct tctggagcag agccgagacg aagcagttct 120
ggagtgcctg aacggccccc tgagccctac ccgcctggcc cactatggtc cagaggctgt 180
gggtgagccg cctgtgcggg caccggaaag ccagctctt gctgggtcaac ctgctaacct 240
ttggcctgga ggtgtgtttg gccgcaggca tcacctatgt gccgcctctg ctgctggaag 300
tgggggtaga ggagaagttc atgacctggg tgetgggtga gtcactacat cctccttctc 360
tcctgttcca gatacatgcc acctggcatg tgggacagga gtacctctgc cctgggagct 420
gcttgagggg agaggtggc tgctgggaag gcattgctgg gcaggagggt gaccctgggc 480
tgagggggga caccaagaga aagaagagaa taaccaaggac atacccagct cacctctgga 540
tccttggtcc tgcacagagc ctggctcata ggagacactg gagaaatgct cctaaccttt 600
ggctagccct tttataattt atagcgatta tctcatttaa tgcttacaac caccatttga 660
ggtgatccat tttacagaga aggaagcaga ggcttttaag aggttaggta agtcttagcc 720
aaagccaaat agcagctgaa cagtagagct gggactccat caaggtctcc cagccggagc 780
ttgctcctac ccctaggaca aggggtggac tcctgactct gcagataaat tctacaaaag 840
ccacagaagg caagtagtaa ccattgtgtg acaaccctc accccaggga agaggggccc 900
ctgtgaggat tgcaggctct ggagtcacac tgcttggtga aacgctgcct cttaccctcc 960
ctaggtctgc gcctttgaat aagtatcact tmtagttgc tccatgctc agtttgtcca 1020
tctgaaaatg ggggcactctg taatgcctgt gttatgagga gtaaattaca gcatccctgt 1080
gaagacgtag cacagtgtcg agtacggaat gttatttcca tccttctcac ggagcttgtt 1140
tcccctccc cttgcccttt acttgtccca gccattgact catactactt cccttcttgc 1200
aggcattggt ccagtgtctg gcctgggtctg tgtcccgctc ctaggctcag ccagtgacca 1260
ctggcgtgga cgctatggcc gccgcgggcc cttcatctgg gcaactgctc tgggcatcct 1320
gctgagcctc tttctcatcc caagggccgg ctggctagca gggctgctgt gcccgatcc 1380
caggcccttg gagctggcac tgctcatcct gggcgtgggg ctgctggact tctgtggcca 1440
ggtgtgcttc actccactgg aggccctgct ccttgacctc ttccgggacc cggaccactg 1500
tcgccaggcc tactctgtct atgccttcat gatcagttt gggggctgcc tgggctacct 1560
cctgcctgcc attgactggg acaccagtgc cctggccccc tacctgggca cccaggagga 1620

```

gtgcctcttt ggctgtctca ccctcatctt cctcacctgc gtagcagcca cactgctggt 1680  
 ggctgaggag gcagcgctgg gccccaccga gccagcagaa gggctgtcgg cccctcctt 1740  
 gtcgccccac tgctgtccat gccgggcccc cttggctttc cggaacctgg gcgccttgc 1800  
 tccccggtcg caccagctgt gctgcgcgat gccccgcacc ctgcgccggc tcttcgtggc 1860  
 tgagctgtgc agctggatgg cactcatgac cttcacgctg ttttacacgg atttcgtggg 1920  
 cgaggggctg taccagggcg tgcccagagc tgagccgggc accgaggccc ggagacacta 1980  
 tgatgaaggt aaggccttgg cagccagcag aggtgtgtgt gggagccgcc caccagagac 2040  
 gacactcggg gctgtgtctg ggctggtgcc tctccatcct ggccccgact tctctgtcag 2100  
 gaaagtgggg atggacccca tctgcataca cggcttctca tgggtgtgga acatctctgc 2160  
 ttgctgtttc aggaaggcct ctggctgtct taggagtctg atcagagtgc ttgccccagt 2220  
 ttgacagaag gaaaggcgga gcttattcaa agtctagagg gagtggagga gttaaggctg 2280  
 gatttcagat ctgcctgggt ccagccgcag tgtgccctct gctcccccaa cgactttcca 2340  
 aataatctca ccagcgcctt ccagctcagg cgtcctagaa gcgtcttgaa gcctatggcc 2400  
 agctgtcttt gtgttccctc tcaccgcctt gtcctcacag ctgagactcc caggaaacct 2460  
 tcagactacc ttctctgtcc ttcagcaagg ggcgttgccc acattctctg agggctcagt 2520  
 gaagaacctc gactcccatt gctagaggta cagcaggtac ctgtgttcc gccttctcat ctccctgaga 2580  
 ggtccacagc aggtctctgt cagcaggtac ctgtgttcc gccttctcat ctccctgaga 2640  
 ctgctccgac ccttccctcc caggctctgt ctgatggccc ctctccctct gcaggcggtc 2700  
 ggatgggcag cctggggctg ttctgcagt gcgccatctc cctgggtctc tctctgggtc 2760  
 tggaccggct ggtgcagcga ttccggcactc gagcagtcta tttggccagt gtggcagctt 2820  
 tcctgtgtgg tgccgggtgc acatgcctgt cccacagtgt ggccgtgggt acagcttcag 2880  
 ccgcccctac cgggttcacc ttctcagccc tgcagatcct gccctacaca ctggcctccc 2940  
 tctaccaccg ggagaagcag gtactcattg gccagtgggt ggagtccagg tgggaggggt 3000  
 ggtctgggtt ttggggaggc caactagctc agaacctgg atctggcaag caactttgga 3060  
 gaatgcttct ttgaatcaga gaagaagctt atcctagccc cagggccaga ggcttgggt 3120  
 gcagaacagt gtagattaga ttctgggaat gacttctctg ggtcaggact gtgtagcact 3180  
 tgaatggatg attgcaggaa atgcaaaata cgatagtggg aatcccgaag ggtcaggcca 3240  
 gcaggagccc taggcttcta ggctgggtgt tctatggaga ggagggggc tgaatcagat 3300  
 gacccttggg ccattcagcc tcagcagacg ggagtgggaa tgggtccagcc ttagcaacac 3360  
 ctttcttcag ggagcagcaa cctgacttag cctgtatcct actctggtct ctgagatggg 3420  
 gcaggctcct tcctaccccc ttcttttctg gcttattttt cttttctgtc taattccctt 3480  
 ttcttttctt gcatccctcc ttgctcctt tccctttctc cttcccttcc ccttccctt 3540  
 gtggcagata tctgagcttg acacctgacc cactcacttg ggcaactgtg aagttgtggg 3600  
 gacctccttc ttggttgccc ctacactaac cagccccctc aggggcccct ttcttggga 3660  
 agccacctaa cccaggtagt gtggtcatcc ttgtccctc cactgacctc actgagctac 3720  
 aaacctgggt gctggactct gccttgagg gcatgaagtt ggggtgtccc aaggaggagg 3780  
 gagatgcagg actgctctca tagagctctc agactgtagg gaagacctgc cctgcgtct 3840  
 cgtagcactt gaggagagga gtaggtaagt tcgtagctga gaggctggtt aactgagtag 3900  
 gtagctgcag gggtagaggg tatggagggg aggggctaag gttttggtg ggggagcctg 3960  
 gtccctgaga cccctgttag cccactgata accttcttca gccttctcct ttctgcttgc 4020  
 ctgggctggg ggcagggggc tggcatcagc ggccaggcct gagtatgtgc tgtcgtgcca 4080  
 gggaacgttc tgggctagc catcttctcc agatggagga gcatgtctgt cctcgacca 4140  
 ctccagactc caacctcagc ggacattcct ggggtggcag gcaggaggga gaagtcctg 4200  
 gaggccccct cctaacagca gctgatggca gacttggcac tgcacgctgt ctgcctgttc 4260  
 ctttgcccac ttgttgagct gcatggtag ccgtgggctt ccctggtgtc aggtttgagc 4320  
 tctgccatgg ctcccacct gcaaatgcag ccaactcaac tcttctggca tggggacaat 4380  
 gttggataag acctggcctt gtccttaaat aggagctct gggccatcaa gggcagggt 4440  
 tggggggatg gtggtcgacc agtcaactct atctaagtca gacagcagga aggaagttag 4500  
 aagcctcaa cattgcaca gctggggctg ggggaggtg gaagaggagc attcctcctg 4560  
 cttggggtct cttggattct cctgccccca aggtgggga caaggagct catggcagg 4620  
 cagctaccct agtggcatct gggaccccag agaggcagag cttctctgca ccgggcaatg 4680  
 aggatttcca gatgtcggag tggagggcag gcaggaggga aggttaggag agcctgcgtg 4740  
 gggtttgggc catcaggggc cctgccttgg cttttgttcc tctgttctgt gcatctctta 4800  
 ccaccgtctt cattccccct gtgtcttttc cttaccttgg agctctgttc tctctgatct 4860  
 gtgatattga gtttgtctgc ctctaacctg ttctaagagg cttagaggaga cctagacttc 4920  
 tgggttcaca tttgtccccg ccttaccctg ttaccctct cccactcctg aggaagggtc 4980  
 ctggttagac ttggaccaag tagggtctcc atcttctctc ctgctcctga ttctcatgaa 5040  
 gtcccattgc ccctgggatg gaggcaaggg tctgttctca cagctggggt ggtgccagt 5100



```

ctgggtacac acctgtctc ttccccttt cttcaccct ctgccttagg tgttcctgcc 5160
caaataccga ggggacactg gaggtgctag cagtgaggac agcctgatga ccagcttctc 5220
gccaggccct aagcctggag ctcccctccc taatggacac gtgggtgctg gaggcagtgg 5280
cctgctccca cctccaccgg cgctctgagg ggctctgccc tgtgatgtct ccgtacgtgt 5340
ggtggtgggt gagcccaccg agggcagggt gggtccgggc cggggcatct gcctggacct 5400
cgccatcctg gatagtgcct tcctgctgtc ccagggtggcc ccatccctgt ttatgggctc 5460
cattgtccag ctccagccagt ctgtcactgc ctatatggtg tctgccgcag gcctgggtct 5520
ggtcgccatt tactttgcta cacaggtagt atttgacaag agcgacttgg ccaaatactc 5580
agcgtagaaa acttcagca cattgggggtg gagggcctgc ctactgggt cccagctccc 5640
cgctcctgtt agcccatgg ggctgcccgg ctggccgcca gtttctgttg ctgccaaagt 5700
aatgtggctc tctgctgcca ccctgtgctg ctgaggtgag tagctgcaca gctgggggct 5760
ggggcgtccc tctcctctct cccagctctc tagggctgcc tgactggagg ccttccaagg 5820
gggtttcagt ctggacttat acagggaggc cagaagggt ccatgcactg gaatgcgggg 5880
actctgcagg tggattaccc aggtcagggt ttaacagcta gcctcctagt tgagacacac 5940
ctagagaagg gtttttggga gctgaataaa ctcagtcacc tggtttccca tctctaagcc 6000
ccttaacctg cagcttcggt taatgtagct cttgcatggg agtttctagg atgaaacact 6060
cctccatggg atttgaacat atgaaagtta tttgtagggg aagagtcctg aggggcaaca 6120
cacaagaacc aggtcccctc agcccacagc actgtctttt tgctgatcca ccccccctct 6180
accttttatc aggatgtggc ctggttggtc ttctgttgcc atcacagaga cacaggcatt 6240
taaataattt acttatttat ttaacaaagt agaagggaat ccattgctag cttttctgtg 6300
ttggtgtcta atatttgggt aggtgggggg atccccaaca atcaggctcc ctgagatagc 6360
tggtcatttg gctgatcatt gccagaatct tcttctcctg gggctctggc ccccaaatg 6420
cctaaccag gaccttgaa attctactca tcccaaatga taattccaaa tgctgttacc 6480
caaggttagg gtgttgagg aaggtagagg gtggggcttc aggtctcaac ggcttcccta 6540
accacccctc ttctcttgcc ccagcctggt tccccccact tccactcccc tctactctct 6600
ctaggactgg gctgatgaag gcaactgcca aaatttcccc taccocccaac tttcccctac 6660
ccccaacttt cccaccagc tccacaacc tgtttgagg tactgcagga ccagaagcac 6720
aaagtgcggt ttcccaagcc tttgtccatc tcagccccc gagtatatct gtgcttgggg 6780
aatctcacac agaaactcag gagcaccccc tgcctgagct aagggagggtc ttatctctca 6840
ggggggggtt aagtgcggt tgcaataatg tcgtcttatt tathtagcgg ggtgaatatt 6900
ttatactgta agtgagcaat cagagtataa tgtttatggt gacaaaatta aaggctttct 6960
tatatgttta aaaaaa

```

&lt;210&gt; 627

&lt;211&gt; 123

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 627

Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu Val Phe  
5 10 15

Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val  
20 25 30

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys  
35 40 45

Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly  
50 55 60

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu  
65 70 75 80

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly  
85 90 95

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu  
 100 105 110

Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu  
 115 120

<210> 628  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 628  
 Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala  
 5 10 15

Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu  
 20 25 30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val  
 35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro  
 50 55 60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr  
 65 70 75 80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly  
 85 90 95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg  
 100 105 110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly  
 115 120 125

Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn  
 130 135 140

Leu Trp Leu Ala Leu Leu  
 145 150

<210> 629  
 <211> 371  
 <212> PRT  
 <213> Homo sapiens

<400> 629  
 Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro Leu Ala  
 5 10 15

Leu Tyr Leu Ser Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly  
 20 25 30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala  
 35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp  
 50 55 60  
 Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala  
 65 70 75 80  
 Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu  
 85 90 95  
 Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val  
 100 105 110  
 Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro  
 115 120 125  
 Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu  
 130 135 140  
 Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser  
 145 150 155 160  
 Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu  
 165 170 175  
 Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala  
 180 185 190  
 Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala  
 195 200 205  
 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe  
 210 215 220  
 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg  
 225 230 235 240  
 Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp  
 245 250 255  
 Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu  
 260 265 270  
 Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg  
 275 280 285  
 Arg His Tyr Asp Glu Gly Lys Ala Leu Ala Ala Ser Arg Gly Trp Cys  
 290 295 300  
 Gly Ser Arg Pro Pro Glu Thr Thr Leu Gly Ala Val Ser Gly Leu Val  
 305 310 315 320  
 Pro Leu His Pro Gly Pro Asp Phe Ser Val Arg Lys Val Gly Met Asp  
 325 330 335  
 Pro Ile Cys Ile His Gly Phe Ser Trp Val Trp Asn Ile Ser Ala Cys  
 340 345 350

Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val  
 355 360 365

Ala Pro Val  
 370

<210> 630  
 <211> 2983  
 <212> DNA  
 <213> Homo sapiens

<400> 630  
 agagatagag tcttccctgg cattgcagga gagaatctga agggatgatg gatgcatcaa 60  
 aagagctgca agttctccac attgacttct tgaatcagga caacgccgtt tctcaccaca 120  
 catgggagtt ccaaacgagc agtcctgtgt tccggcgagg acagggtgtt cacctgcggc 180  
 tgggtgctgaa ccagccccta caatcctacc accaactgaa actggaattc agcacagggc 240  
 cgaatcctag catcgccaaa cacaccctgg tgggtgctcga cccgaggacg ccctcagacc 300  
 actacaactg gcaggcaacc cttcaaaatg agtctggcaa agaggtcaca gtggctgtca 360  
 ccagttcccc caatgccatc ctgggcaagt accaactaaa cgtgaaaact ggaaaccaca 420  
 tccttaagtc tgaagaaaac atcctatacc ttctcttcaa cccatggtgt aaagaggaca 480  
 tggttttcat gcctgatgag gacgagcgca aagagtacat cctcaatgac acgggctgcc 540  
 attacgtggg ggctgccaga agtatcaaat gcaaaccctg gaactttggt cagtttgaga 600  
 aaaatgtcct ggactgctgc atttccctgc tgactgagag ctccctcaag cccacagata 660  
 ggagggaccc cgtgctggtg tgcagggcca tgtgtgctat gatgagcttt gagaaaggcc 720  
 agggcggtgct cattgggaat tggactgggg actatgaagg tggcacagcc ccatacaagt 780  
 ggacaggcag tgccccgatc ctgcagcagt actacaacac gaagcaggct gtgtgctttg 840  
 gccagtgtct ggtgtttgct gggatcctga ctacagtgtc gagagcgttg ggcattcccag 900  
 caccgagtgt gacaggcttc gattcagctc acgacacaga aaggaaacctc acggtggaca 960  
 cctatgtgaa tgagaatggc aagaaaatca ccagtatgac ccacgactct gtctggaatt 1020  
 tccatgtgtg gacggatgcc tggatgaagc gaccggatct gcccaagggc tacgacggct 1080  
 ggcaggctgt ggacgcaacg ccgcaggagc gaagccaggg tgtcttctgc tgtgggccat 1140  
 caccactgac cgccatccgc aaagggtgaca tctttattgt ctatgacacc agattcgtct 1200  
 tctcagaagt gaatggtgac aggtcctctt ggttgggtgaa gatggtgaat gggcaggagg 1260  
 agttacacgt aatttcaatg gagaccacaa gcatcgggaa aaacatcagc accaaggcag 1320  
 tgggccaaaga caggcgagaa gatatacct atgagtacaa gtatccagaa ggctcctctg 1380  
 aggagaggca ggtcatggat catgccttcc tccttctcag ttctgagagg gagcacagac 1440  
 gacctgtaaa agagaacttt cttcacatgt cggtaacaatc agatgatgtg ctgctgggaa 1500  
 actctgttaa tttcaccgtg attcttaaaa ggaagaccgc tgccctacag aatgtcaaca 1560  
 tcttgggctc ctttgaacta cagttgtaca ctggcaagaa gatggcaaaa ctgtgtgacc 1620  
 tcaataagac ctgcgagatc caaggtaag tatcagaagt gactctgacc ttggactcca 1680  
 agacctacat caacagcctg gctatattag atgatgagcc agttatcaga ggtttcatca 1740  
 ttgcggaat tgtggagtct aaggaaatca tggcctctga agtattcacg tctttccagt 1800  
 accctgagtt ctctatagag ttgcctaaca caggcagaat tggccagcta cttgtctgca 1860  
 attgtatctt caagaatacc ctggccatcc ctttgactga cgtcaagttc tctttggaaa 1920  
 gcctgggcat ctctcacta cagacctctg accatgggac ggtgcagcct ggtgagacca 1980  
 tccaatccca aataaaatgc accccaataa aaactggacc caagaaattt atcgtcaagt 2040  
 taagttccaa acaagtgaag gagattaatg ctacagaagt tgttctcatc accaagtagc 2100  
 cttgtctgat gctgtggagc cttagttgag atttcagcat ttctacctt gtgcttagct 2160  
 ttcagattat ggatgattaa atttgatgac ttatatgagg gcagattcaa gagccagcag 2220  
 gtcaaaaagg ccaacacac cataagcagc cagaccacac agggccaggctc ctgtgctatc 2280  
 acagggtcac ctcttttaca gttagaaaca ccagccgagg ccacagaatc ccatcccttt 2340  
 cctgagtcac ggccctcaaaa atcaggggcca ccattgtctc aattcaaatc catagatttc 2400  
 gaagccacag agtctctccc tggagcagca gactatgggc agcccagtcg tgccacctgc 2460  
 tgacgacctc tgagaagctg ccatactctc agggccatggg ttcaccagcc ctgaaggcac 2520  
 ctgtcaactg gagtgtcttc tcagcactgg gatgggacctg atagaagtgc attctcctcc 2580

tattgcctcc atttctctct ctctatccct gaaatccagg aagtcctct cctgggtgctc 2640  
 caagcagttt gaagcccaat ctgcaaggac atttctcaag ggccatgtgg ttttgcagac 2700  
 aaccctgtcc tcaggcctga actcaccata gagaccatg tcagcaaacg gtgaccagca 2760  
 aatcctcttc ccttattcta aagctgcccc ttgggagact ccagggagaa ggcattgctt 2820  
 cctccctggg gtgaactctt tctttggat tccatccact atcctggcaa ctcaaggctg 2880  
 cttctgttaa ctgaagcctg ctcttcttg ttctgcccctc cagagatttg ctcaaattgat 2940  
 caataagctt taaattaaac tctacttcaa gaaaaaaaaa ccg 2983

&lt;210&gt; 631

&lt;211&gt; 3064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 631

aattctaaaa atgcttttgc aagcttgcag gcctgcaggt gcagcgcccg ccagtgtgat 60  
 ggatatctgc agaattoggc ttgcgctcag ctggaattcc gcagagatag agtcttccct 120  
 ggcattgcag gagagaatct gaagggatga ttggatgcac aaaagagctg caagttctcc 180  
 acattgactt cttgaatcag gacaacgccg tttctacca cacatgggag ttccaaacga 240  
 gcagtcctgt gttccggcga ggacaggtgt ttcacctgcg gctgggtgctg aaccagcccc 300  
 tacaatccta ccaccaactg aaactggaat tcagcacagg gccgaatcct agcatcgcca 360  
 aacacacctt ggtgggtgct gacccgagga cgccctcaga ccaactaac tggcaggcaa 420  
 cccttcaaaa tgagtctggc aaagaggtca cagtggctgt caccagttcc cccaatgcca 480  
 tcctgggcaa gtaccaacta aacgtgaaaa ctggaaacca catccttaag tctgaagaaa 540  
 acatcctata ccttctcttc aacctatggt acacgggtg ccattacgtg ggggctgcca 600  
 aggacgagcg caaagagtac atcctcaatg acacgggtg ccattacgtg ggggctgcca 660  
 gaagtatcaa atgcaaacc tggaaacttg gtcagtttga gaaaaatgtc ctggactgct 720  
 gcatttccct gctgactgag agtccctca agcccacaga taggagggac cccgtgctgg 780  
 tgtgcagggc catgtgtgct atgatgagct ttgagaaagg ccagggcgtg ctcatgggga 840  
 attggactgg ggactacgaa ggtggcacag ccccatataa gtggacaggc agtgccccga 900  
 tcctgcagca gtactacaac acgaagcagg ctgtgtgctt tggccagtgc tgggtgtttg 960  
 ctgggatcct gactacagtg ctgagagcgt tgggcatccc agcacgcaat gtgacaggct 1020  
 tcgattcagc tcacgacaca gaaaggaacc tcacggtgga cacctatgtg aatgagaatg 1080  
 gcgagaaaa caccagtatg acccacgact ctgtctggaa tttccatgtg tggacggatg 1140  
 cctggatgaa gcgaccctac gacggctggc aggtgtgga cgcaacgccg caggagcgaa 1200  
 gccaggggtg cttctgctgt gggccatcac cactgaccgc catccgcaaa ggtgacatct 1260  
 ttattgtcta tgacaccaga ttctgtctct cagaagtga tgggtgacagg ctcatctggt 1320  
 tggatgaagat ggtgaatggg caggaggagt tacacgtaat ttcaatggag accacaagca 1380  
 tcgggaaaaa catcagcacc aaggcagtg gccaagacag gcggagagat atcacctatg 1440  
 agtacaagta tcagaaggc tcctctgagg agaggcaggt catggatcat gccttccctc 1500  
 ttctcagttc tgagagggag cacagacagc ctgtaaaaga gaactttctt cacatgtcgg 1560  
 tacaatcaga tgatgtgctg ctgggaaact ctgttaattt caccgtgatt cttaaaagga 1620  
 agaccgtgc cctacagaat gtcaacatct tgggctcctt tgaactacag ttgtacactg 1680  
 gcaagaagat ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat 1740  
 cagaagtga tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg 1800  
 atgagccagt tatcagaggt ttcattcttg cggaaattgt ggagtctaag gaaatcatgg 1860  
 cctctgaagt attcacgtca aaccagtacc ctgagttctc tatagagttg cctaacacag 1920  
 gcagaattgg ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt 1980  
 tgactgacgt caagttctct ttggaaagcc ttgggcatctc ctactacag acctctgacc 2040  
 atgggacggt gcagcctggt gagaccatcc aatcccaaat aaaatgcacc ccaataaaaa 2100  
 ctggacccaa gaaatttatc gtcaagttaa gttccaaaca agtgaagag attaatgtct 2160  
 agaagattgt tctcatcacc aagtagcctt gtctgatgct gtggagcctt agttgagatt 2220  
 tcagcatttc ctaccttggt cttagctttc agattatgga tgattaaatt tgatgactta 2280  
 tatgagggca gattcaagag ccagcaggtc aaaaaggcca acacaacct aagcagccag 2340  
 acccacaagg ccaggtcctg tgctatcaca gggcacctc ttttacagtt agaaacacca 2400  
 gccgaggcca cagaatccca tccctttcct gagtcatggc ctcaaaaatc agggccacca 2460  
 ttgtctcaat tcaaatccat agatttcgaa gccacagagc tcttccctgg agcagcagac 2520  
 tatgggcagc ccagtgtgc cacctgtga cgacccttga gaagctgcca tatcttcagg 2580  
 ccatgggttc accagccctg aaggcacctg tcaactggag tgctctctca gcactgggat 2640

```

gggcctgata gaagtgcatt ctctctctat tgccctccatt ctctctctctc tatccctgaa 2700
atccaggaag tccctctctt ggtgctccaa gcagtttgaa gcccaatctg caaggacatt 2760
tctcaagggc catgtgggtt tgcagacaac cctgtcctca ggccctgaact caccatagag 2820
acccatgtca gcaaacgggtg accagcaaat cctcttccct tattctaaag ctgccccttg 2880
ggagactcca gggagaaggc attgcttctt ccctgggtgtg aactctttct ttggtattcc 2940
atccactatc ctggcaactc aaggctgctt ctgttaactg aagcctgctc cttcttggtc 3000
tgccctccag agatttgctc aaatgatcaa taagctttaa attaaaccgg aatccgcgga 3060
attc

```

&lt;210&gt; 632

&lt;211&gt; 684

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

```

Met Met Asp Ala Ser Lys Glu Leu Gln Val Leu His Ile Asp Phe Leu
          5                      10                      15

```

```

Asn Gln Asp Asn Ala Val Ser His His Thr Trp Glu Phe Gln Thr Ser
          20                      25                      30

```

```

Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu
          35                      40                      45

```

```

Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
          50                      55                      60

```

```

Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
          65                      70                      75                      80

```

```

Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
          85                      90                      95

```

```

Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
          100                     105                     110

```

```

Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
          115                     120                     125

```

```

Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
          130                     135                     140

```

```

Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
          145                     150                     155                     160

```

```

Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys
          165                     170                     175

```

```

Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
          180                     185                     190

```

```

Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp
          195                     200                     205

```

```

Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys
          210                     215                     220

```

```

Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly

```

225		230		235		240
Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr	245		250		255	
Tyr Asn Thr Lys Gln Ala Val Cys Phe Gly Gln Cys Trp Val Phe Ala	260		265		270	
Gly Ile Leu Thr Thr Val Leu Arg Ala Leu Gly Ile Pro Ala Arg Ser	275		280		285	
Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val	290		295		300	
Asp Thr Tyr Val Asn Glu Asn Gly Lys Lys Ile Thr Ser Met Thr His	305		310		315	320
Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg	325		330		335	
Pro Asp Leu Pro Lys Gly Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr	340		345		350	
Pro Gln Glu Arg Ser Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu	355		360		365	
Thr Ala Ile Arg Lys Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe	370		375		380	
Val Phe Ser Glu Val Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met	385		390		395	400
Val Asn Gly Gln Glu Glu Leu His Val Ile Ser Met Glu Thr Thr Ser	405		410		415	
Ile Gly Lys Asn Ile Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg	420		425		430	
Asp Ile Thr Tyr Glu Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg	435		440		445	
Gln Val Met Asp His Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His	450		455		460	
Arg Arg Pro Val Lys Glu Asn Phe Leu His Met Ser Val Gln Ser Asp	465		470		475	480
Asp Val Leu Leu Gly Asn Ser Val Asn Phe Thr Val Ile Leu Lys Arg	485		490		495	
Lys Thr Ala Ala Leu Gln Asn Val Asn Ile Leu Gly Ser Phe Glu Leu	500		505		510	
Gln Leu Tyr Thr Gly Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys	515		520		525	
Thr Ser Gln Ile Gln Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp	530		535		540	

Ser Lys Thr Tyr Ile Asn Ser Leu Ala Ile Leu Asp Asp Glu Pro Val  
 545 550 555 560  
 Ile Arg Gly Phe Ile Ile Ala Glu Ile Val Glu Ser Lys Glu Ile Met  
 565 570 575  
 Ala Ser Glu Val Phe Thr Ser Phe Gln Tyr Pro Glu Phe Ser Ile Glu  
 580 585 590  
 Leu Pro Asn Thr Gly Arg Ile Gly Gln Leu Leu Val Cys Asn Cys Ile  
 595 600 605  
 Phe Lys Asn Thr Leu Ala Ile Pro Leu Thr Asp Val Lys Phe Ser Leu  
 610 615 620  
 Glu Ser Leu Gly Ile Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val  
 625 630 635 640  
 Gln Pro Gly Glu Thr Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys  
 645 650 655  
 Thr Gly Pro Lys Lys Phe Ile Val Lys Leu Ser Ser Lys Gln Val Lys  
 660 665 670  
 Glu Ile Asn Ala Gln Lys Ile Val Leu Ile Thr Lys  
 675 680

&lt;210&gt; 633

&lt;211&gt; 679

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 633

Met Met Asp Ala Ser Lys Glu Leu Gln Val Leu His Ile Asp Phe Leu  
 5 10 15  
 Asn Gln Asp Asn Ala Val Ser His His Thr Trp Glu Phe Gln Thr Ser  
 20 25 30  
 Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu  
 35 40 45  
 Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr  
 50 55 60  
 Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro  
 65 70 75 80  
 Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu  
 85 90 95  
 Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile  
 100 105 110  
 Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys  
 115 120 125



Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu  
 130 135 140  
 Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu  
 145 150 155 160  
 Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys  
 165 170 175  
 Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys  
 180 185 190  
 Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp  
 195 200 205  
 Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys  
 210 215 220  
 Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly  
 225 230 235 240  
 Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr  
 245 250 255  
 Tyr Asn Thr Lys Gln Ala Val Cys Phe Gly Gln Cys Trp Val Phe Ala  
 260 265 270  
 Gly Ile Leu Thr Thr Val Leu Arg Ala Leu Gly Ile Pro Ala Arg Ser  
 275 280 285  
 Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val  
 290 295 300  
 Asp Thr Tyr Val Asn Glu Asn Gly Glu Lys Ile Thr Ser Met Thr His  
 305 310 315 320  
 Asp Ser Val Trp Asn Phe His Val Trp Thr Asp Ala Trp Met Lys Arg  
 325 330 335  
 Pro Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr Pro Gln Glu Arg Ser  
 340 345 350  
 Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu Thr Ala Ile Arg Lys  
 355 360 365  
 Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe Val Phe Ser Glu Val  
 370 375 380  
 Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met Val Asn Gly Gln Glu  
 385 390 395 400  
 Glu Leu His Val Ile Ser Met Glu Thr Thr Ser Ile Gly Lys Asn Ile  
 405 410 415  
 Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg Asp Ile Thr Tyr Glu  
 420 425 430  
 Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg Gln Val Met Asp His

435	440	445
Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His Arg Gln Pro Val Lys		
450	455	460
Glu Asn Phe Leu His Met Ser Val Gln Ser Asp Asp Val Leu Leu Gly		
465	470	475 480
Asn Ser Val Asn Phe Thr Val Ile Leu Lys Arg Lys Thr Ala Ala Leu		
	485	490 495
Gln Asn Val Asn Ile Leu Gly Ser Phe Glu Leu Gln Leu Tyr Thr Gly		
	500	505 510
Lys Lys Met Ala Lys Leu Cys Asp Leu Asn Lys Thr Ser Gln Ile Gln		
	515	520 525
Gly Gln Val Ser Glu Val Thr Leu Thr Leu Asp Ser Lys Thr Tyr Ile		
	530	535 540
Asn Ser Leu Ala Ile Leu Asp Asp Glu Pro Val Ile Arg Gly Phe Ile		
545	550	555 560
Ile Ala Glu Ile Val Glu Ser Lys Glu Ile Met Ala Ser Glu Val Phe		
	565	570 575
Thr Ser Asn Gln Tyr Pro Glu Phe Ser Ile Glu Leu Pro Asn Thr Gly		
	580	585 590
Arg Ile Gly Gln Leu Leu Val Cys Asn Cys Ile Phe Lys Asn Thr Leu		
	595	600 605
Ala Ile Pro Leu Thr Asp Val Lys Phe Ser Leu Glu Ser Leu Gly Ile		
	610	615 620
Ser Ser Leu Gln Thr Ser Asp His Gly Thr Val Gln Pro Gly Glu Thr		
625	630	635 640
Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys Thr Gly Pro Lys Lys		
	645	650 655
Phe Ile Val Lys Leu Ser Ser Lys Gln Val Lys Glu Ile Asn Ala Gln		
	660	665 670
Lys Ile Val Leu Ile Thr Lys		
	675	

&lt;210&gt; 634

&lt;211&gt; 5668

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

gtcacttagg aaaaggtgtc ctttcgggca gccgggctca gcatgaggaa cagaaggaat 60  
gacactctgg acagcaccgc gaccctgtac tccagcgcggt ctcggagcac agacttgtct 120  
tacagtgaag gcgacttggt gaattttatt caagcaaatt ttaagaaacg agaatgtgtc 180

ttctttacca	aagattccaa	ggccacggag	aatgtgtgca	agtgtggcta	tgcccagagc	240
cagcacatgg	aaggcaacca	gatcaaccaa	agtgagaaat	ggaactacaa	gaaacacacc	300
aaggaatttc	ctaccgacgc	ctttggggat	attcagtttg	agacactggg	gaagaaaggg	360
aagtatatac	gtctgtctctg	cgacacggac	gcggaaatcc	tttacgagct	gctgacccag	420
cactggcacc	tgaaaacacc	caacctggtc	atttctgtga	ccggggggcg	caagaacttc	480
gccctgaagc	cgcgcattgcg	caagatcttc	agccggctca	tctacatcgc	gcagtccaaa	540
ggtgcttgga	ttctcacggg	aggcaccat	tatggcctga	cgaagtacat	cggggaggtg	600
gtgagagata	acaccatcag	caggagtcca	gaggagaata	ttgtggccat	tggcatagca	660
gcttggggca	tggctctcaa	ccgggacacc	ctcatcagga	attgcgatgc	tgagggctat	720
tttttagccc	agtaccttat	ggatgacttc	acaagggatc	cactgtatat	cctggacaac	780
aaccacacac	atttgctgct	cgtggacaat	ggctgtcatg	gacatccac	tgctgaagca	840
aagctccgga	atcagctaga	gaagcatatc	tctgagcgca	ctattcaaga	ttccaactat	900
ggtggcaaga	tccccattgt	gtgttttgcc	caaggaggtg	gaaaagagac	tttgaaagcc	960
atcaatacct	ccatcaaaaa	taaaattcct	tgtgtggtgg	tggaaggctc	gggccggatc	1020
gctgatgtga	tcgctagcct	ggtggaggtg	gaggatgccc	cgacatcttc	tgccgtcaag	1080
gagaagctgg	tgcgcttttt	accccgcacg	gtgtcccggc	tgtctgagga	ggagactgag	1140
agttggatca	aatggctcaa	agaaattctc	gaatgttctc	acctattaac	agttattaaa	1200
atggaagaag	ctggggatga	aattgtgagc	aatgccatct	cctacgctct	atacaagcc	1260
ttcagcacca	gtgagcaaga	caaggataac	tggaatgggc	agctgaagct	tctgctggag	1320
tggaaccagc	tggacttagc	caatgatgag	attttcacca	atgaccgccg	atgggagtct	1380
gctgaccttc	aagaagtcac	gtttacggct	ctcataaagg	acagacccaa	gtttgtccgc	1440
ctctttctgg	agaatggctt	gaacctacgg	aagtttctca	cccattgatgt	cctcactgaa	1500
ctcttctcca	accacttcag	cacgcttggt	taccggaatc	tgcatatcgc	caagaattcc	1560
tataatgatg	ccctcctcac	gtttgtctgg	aaactggttg	cgaacttccg	aagaggcttc	1620
cggaaaggaa	acagaaatgg	ccgggacgag	atggacatag	aactccacga	cgtgtctcct	1680
attactcggc	accccctgca	agctctcttc	atctgggcca	ttcttcagaa	taagaaggaa	1740
ctctccaaag	tcatttgga	gcagaccagg	ggctgcactc	tgccagccct	gggagccagc	1800
aagcttctga	agactctggc	caaagtgaag	aacgacatca	atgctgctgg	ggagtccgag	1860
gagctggcta	atgagtacga	gacccgggct	gttgagctgt	tactgagtg	ttacagcagc	1920
gatgaagact	tggcagaaca	gctgctggtc	tattcctgtg	aagcttgggg	tggaagcaac	1980
tgtctggagc	tggcggtgga	ggccacagac	cagcatttca	ccgccagcc	tggggtccag	2040
aattttcttt	ctaagcaatg	gtatggagag	atttcccag	acaccaagaa	ctggaagatt	2100
atcctgtgtc	tgtttattat	acccttggtg	ggctgtggct	ttgtatcatt	taggaagaaa	2160
cctgtcgaca	agcacaagaa	gctgctttgg	tactatgtgg	cgttcttcac	ctccccctc	2220
gtggtcttct	cctggaatgt	ggtctttctac	atcgccctcc	tcctgctgtt	tgccctacgtg	2280
ctgctcatgg	atttccattc	ggtgccacac	ccccccgagc	tggtcctgta	ctcgctggtc	2340
tttgtcctct	tctgtgatga	agtgagacag	tggtacgtaa	atggggtgaa	ttattttact	2400
gacctgtgga	atgtgatgga	cacgctgggg	cttttttact	tcatagcagg	aattgtattt	2460
cggctccact	cttctaataa	aagctctttg	tattctggac	gagtcatttt	ctgtctggac	2520
tacattattt	tactctaaag	attgatccac	atttttactg	taagcagaaa	cttaggaccc	2580
aagattataa	tgctgcagag	gatgctgac	gatgtgttct	tcttctgtt	cctctttgcg	2640
gtgtggatgg	tggcctttgg	cgtggccagg	caagggatcc	ttaggcagaa	tgagcagcgc	2700
tggaggtgga	tattccgctc	ggtcatctac	gagccctacc	tgcccatgtt	cggccaggtg	2760
cccagtgacg	tggatggtac	cacgtatgac	tttgccact	gcaccttcac	tggaatgag	2820
tccaagccac	tgtgtgtgga	gctggatgag	cacaacctgc	cccggttccc	cgagtggatc	2880
accatcccc	tgggtgtgcat	ctacatgtta	tccaccaaca	tcctgctggt	caacctgctg	2940
gtcgccatgt	ttggctacac	ggtgggcacc	gtccaggaga	acaatgacca	ggtctggaag	3000
ttccagaggt	acttctctggt	gcaggagtac	tgcagccgcc	tcaatatccc	cttccccctc	3060
atcgtcttct	cttacttcta	catgggtggtg	aagaagtgtc	tcaagtgttg	ctgcaaggag	3120
aaaaacatgg	agtcttctgt	ctgctgtttc	aaaaatgaag	acaatgagac	tctggcatgg	3180
gaggggtgtca	tgaaggaaaa	ctaccttctc	aagatcaaca	caaaaagccaa	cgacacctca	3240
gaggaaatga	ggcatcgatt	tagacaactg	gatacaaagc	ttaatgatct	caagggtctt	3300
ctgaaagaga	ttgctaataa	aatcaaataa	aactgtatga	aactctaattg	gagaaaaatc	3360
taattatagc	aagatcatat	taagggaatgc	tgatgaacaa	ttttgctatc	gactactaaa	3420
tgagagattt	tcagacccct	gggtacatgg	tggatgattt	taaatcacc	tagtgtgctg	3480
agaccttgag	aataaagtgt	gtgattggtt	tcatacttga	agacggatat	aaagggaagaa	3540
tatttccctt	atgtgtttct	ccagaatggt	gcctgtttct	ctctgtgtct	caatgcctgg	3600
gactggaggt	tgatagttta	agtgtgttct	taccgcctcc	tttttccctt	aatcttattt	3660

```

ttgatgaaca catatatagg agaacatcta tcctatgaat aagaacctgg tcatgcttta 3720
ctcctgtatt gttatittgt tcatttccaa ttgattctct acttttccct tttttgtatt 3780
atgtgactaa ttagttggca tattgttaaa agtctctcaa attaggccag attctaaaac 3840
atgctgcagc aagaggaccc cgctctcttc aggaaaagtg ttttcatttc tcaggatgct 3900
tcttacctgt cagaggaggt gacaaggcag tctcttgctc tcttggaactc accaggctcc 3960
tattgaagga accaccccca ttcctaataa tgtgaaaagt cgcccaaaat gcaaccttga 4020
aaggcactac tgactttgtt cttattggat actcctctta tttattatit ttccattaaa 4080
aataatagct ggctattata gaaaatttag accatacaga gatgtagaaa gaacataaat 4140
tgtccccatt accttaaggt aatcactgct aacaatttct ggatggtttt tcaagtctat 4200
tttttttcta tgtatgtctc aattctcttt caaaatttta cagaatgtta tcatactaca 4260
tatatacttt ttatgtaagc tttttcactt agtattttat caaatatgtt tttattatat 4320
tcatagcctt cttaaaçatt atatcaataa ttgcataata ggcaacctct agcgattacc 4380
ataattttgc tcattgaagg ctatctccag ttgatcattg ggatgagcat ctttgtgcat 4440
gaatcctatt gctgtatttg ggaaaatttt ccaagggttag attccaataa atatctatit 4500
attattaaat attaaaatat cgatttatta ttaaaacat ttataaggct ttttcataaa 4560
tgtatagcaa ataggaatta ttaacttgag cataagatat gagatacatg aacctgaact 4620
attaaaataa aatattatat ttaaccctag tttaagaaga agtcaatatg cttattttaa 4680
tattatggat ggtgggcaga tcacttgagg tcaggagttc gagaccagcc tggccaacat 4740
ggcaaaacca catctctact aaaaataaaa aaattagctg ggtgtggtgg tgcactoctg 4800
taatcccagc tactcagaag gctgaggtag aagaattgct ggaacctggg aggcggagggt 4860
tgcagtgaac caagattgca ccaactgcact ccagccgggg tgacagagtg agactccgac 4920
tgaaaataaa taaataaata aataaataaa taaataaata aatattatgg atggtgaagg 4980
gaatggtata gaattggaga gattatctta ctgaacacct gtagtcccag ctttctctgg 5040
aagtgggtgg atttgagcag gatgtgcaca aggcaattga aatgcccata attagtttct 5100
cagctttgaa tacactataa actcagtggc tgaaggagga aatttttaga ggaagctact 5160
aaaagatcta atttgaaaaa ctacaaaagc attaactaaa aaagtttatt ttccttttgg 5220
ctgggcagta gtgaaaataa ctactcaca cattcactat gtttgcaagg aattaacaca 5280
aataaaagat gcctttttac ttaaacgcca agacagaaaa cttgccaat actgagaagc 5340
aacttgcat agagaggga ctgttaaagt ttttcaaccc agttcatctg gtggatgttt 5400
ttgcaggtta ctctgagaat tttgcttatg aaaaatcatt attttttagt tagttcaca 5460
taatgtattg aacatacttc taatcaaagg tgctatgtcc ttgtgtatgg tactaaatgt 5520
gtcctgtgta cttttgcaca actgagaatc ctgcggcttg gtttaatgag tgtgttcâtg 5580
aaataaataa tggaggaatt gtcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 5640
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

```

&lt;210&gt; 635

&lt;211&gt; 1095

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 635

Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr  
5 10 15

Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu  
20 25 30

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe  
35 40 45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala  
50 55 60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp  
65 70 75 80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp  
85 90 95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser  
 100 105 110  
 Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp  
 115 120 125  
 His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys  
 130 135 140  
 Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile  
 145 150 155 160  
 Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His  
 165 170 175  
 Tyr Gly Leu Thr Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile  
 180 185 190  
 Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp  
 195 200 205  
 Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu  
 210 215 220  
 Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro  
 225 230 235 240  
 Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn  
 245 250 255  
 Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu  
 260 265 270  
 Glu Lys His Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly  
 275 280 285  
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu  
 290 295 300  
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val  
 305 310 315 320  
 Glu Gly Ser Gly Arg Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val  
 325 330 335  
 Glu Asp Ala Pro Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe  
 340 345 350  
 Leu Pro Arg Thr Val Ser Arg Leu Ser Glu Glu Glu Thr Glu Ser Trp  
 355 360 365  
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val  
 370 375 380  
 Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser  
 385 390 395 400

Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn  
 405 410 415  
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu  
 420 425 430  
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp  
 435 440 445  
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe  
 450 455 460  
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr  
 465 470 475 480  
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val  
 485 490 495  
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu  
 500 505 510  
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys  
 515 520 525  
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val  
 530 535 540  
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile  
 545 550 555 560  
 Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg  
 565 570 575  
 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu  
 580 585 590  
 Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu  
 595 600 605  
 Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr  
 610 615 620  
 Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu  
 625 630 635 640  
 Ala Trp Gly Gly Ser Asn Cys Leu Glu Leu Ala Val Glu Ala Thr Asp  
 645 650 655  
 Gln His Phe Thr Ala Gln Pro Gly Val Gln Asn Phe Leu Ser Lys Gln  
 660 665 670  
 Trp Tyr Gly Glu Ile Ser Arg Asp Thr Lys Asn Trp Lys Ile Ile Leu  
 675 680 685  
 Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg  
 690 695 700  
 Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala

705		710		715		720
Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr						
		725		730		735
Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His						
		740		745		750
Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val						
		755		760		765
Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly Val Asn Tyr						
		770		775		780
Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe						
		785		790		795
Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu						
		805		810		815
Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu						
		820		825		830
Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile						
		835		840		845
Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu						
		850		855		860
Phe Ala Val Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu						
		865		870		875
Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr						
		885		890		895
Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly						
		900		905		910
Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys						
		915		920		925
Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu						
		930		935		940
Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile						
		945		950		955
Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr						
		965		970		975
Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu						
		980		985		990
Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val						
		995		1000		1005
Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys						
		1010		1015		1020

Lys Glu Lys Asn Met Glu Ser Ser Val Cys Cys Phe Lys Asn Glu Asp  
 1025 1030 1035 1040

Asn Glu Thr Leu Ala Trp Glu Gly Val Met Lys Glu Asn Tyr Leu Val  
 1045 1050 1055

Lys Ile Asn Thr Lys Ala Asn Asp Thr Ser Glu Glu Met Arg His Arg  
 1060 1065 1070

Phe Arg Gln Leu Asp Thr Lys Leu Asn Asp Leu Lys Gly Leu Leu Lys  
 1075 1080 1085

Glu Ile Ala Asn Lys Ile Lys  
 1090 1095

<210> 636  
 <211> 3639  
 <212> DNA  
 <213> Homo sapiens

<400> 636  
 gattacgcaa gctatatttagg tgacactata gaatwctcag cttgcatcaa gcttggtacc 60  
 gagctcggat ccctagtaac ggccgccagt gtgctggaat tcgcccttgc agccgggctc 120  
 agcatgagga acagaaggaa tgacactctg gacagacccc ggaccctgta ctccagcgcg 180  
 tctcggagca cagacttgct ttacagtgaag agcgacttgg tgaattttat tcaagcaaat 240  
 ttttaagaac gagaatgtgt cttctttacc aaagattcca aggccacgga gaatgtgtgc 300  
 aagtgtggct atgccagag ccagcacatg gaaggcacc agatcaacca aagtgagaaa 360  
 tggaaactaca agaaacacac caaggaattt cctaccgacg cctttgggga tattcagttt 420  
 gagacactgg ggaagaaagg gaagtatata cgtctgtcct gcgacacgga cgcggaaatc 480  
 ctttacgagc tgctgaccca gcactggcac ctgaaaacac ccaacctggt catttctgtg 540  
 accgggggag ccaagaactt cgccctgaag ccgcgcatgc gcaagatctt cagccggctc 600  
 atctacatcg cgcagtccaa aggtgcttgg attctcacgg gaggcaccca ttatggcctg 660  
 atgaagtaca tcggggaggt ggtgagagat aacaccatca gcaggagttc agaggagaat 720  
 attgtggcca ttggcatagc agcttggggc atggtctcca accgggacac cctcatcagg 780  
 aattgcgatg ctgagggtta ttttttagcc cagtacctta tggatgactt cacaagagat 840  
 ccactgtata tcctggacaa caaccacaca catttgctgc tcgtggacaa tggctgtcat 900  
 ggacatccca ctgtcgaagc aaagctccgg aatcagctag agaagtatat ctctgagcgc 960  
 actattcaag attccaacta tgggtggcaag atcccattg tgtgttttgc ccaaggaggt 1020  
 ggaaaagaga ctttgaaagc catcaatacc tccatcaaaa ataaaattcc ttgtgtggtg 1080  
 gtggaaggct cggggccagat cgctgatgtg atcgctagcc tgggtggaggt ggaggatgcc 1140  
 ctgacatctt ctgccgtcaa ggagaagctg gtgcgctttt taccgccgac ggtgtcccgg 1200  
 ctgcctgagg aggagactga gagttggatc aaatggctca aagaaattct cgaatgttct 1260  
 cacctattaa cagttattaa aatggaagaa gctggggatg aaattgtgag caatgccatc 1320  
 tcctacgctc tatacaaagc cttcagcacc agtgagcaag acaaggataa ctggaatggg 1380  
 cagctgaagc ttctgctgga gtggaaccag ctggacttag ccaatgatga gattttcacc 1440  
 aatgaccgcc agtgggagtc tgctgacctt caagaagtca tgtttacggc tctcataaag 1500  
 gacagaccca gatgtgtccg cctctttctg gagaatggct tgaacctacg gaagtttctc 1560  
 acccatgatg tcctcactga actcttctcc aaccacttca gcacgcttgt gtaccggaat 1620  
 ctgcagatcg ccaagaattc ctataatgat gccctcctca cgtttgtctg gaaactggtt 1680  
 gcgaacttcc gaagaggctt ccggaaggaa gacagaaatg gccgggacga gatggacata 1740  
 gaactccacg acgtgtctcc tattactcgg caccacctgc aagctctctt catctgggcc 1800  
 attcttcaga ataagaagga actctccaaa gtcatattggg agcagaccag gggctgcact 1860  
 ctggcagccc tgggagccag caagcttctg aagactctgg ccaaagtga gaacgacatc 1920  
 aatgctgctg gggagtcgga ggagctggct aatgagtacg agaccgggc tgttgagctg 1980  
 ttactgaggt gttacagcag cgatgaagac ttggcagaac agctgctggt ctattcctgt 2040



```

gaagcttggg gtggaagcaa ctgtctggag ctggcgggtg aggccacaga ccagcatttc 2100
atcgcccagc ctgggggtcca gaattttctt tctaagcaat ggtatggaga gatttcccga 2160
gacaccaaga actggaagat tatcctgtgt ctgtttatta tacccttggg gggctgtggc 2220
tttgtatcat ttaggaagaa acctgtcgac aagcacaaga agctgctttg gtactatgtg 2280
ggtttcttca cctccccctt cgtgggtctt tcttggaaat tggctctcta catcgccctc 2340
ctcctgctgt ttgcctacgt gctgctcatg gatttccatt cggtgccaca ccccccgag 2400
ctggtcctgt actcgctggg ctttgcctc tctgtgatg aagttagaca gtggtacgta 2460
aatgggggtga attattttac tgacctgtgg aatgtgatgg acacgctggg gcttttttac 2520
ttcatagcag gaattgtatt tccgctccac tcttctaata aaagctcttt gtattctgga 2580
cgagtcattt tctgtctgga ctacattatt ttcaactctaa gattgatcca catttttact 2640
gtaagcagaa acttaggacc caagattata atgctgcaga ggatgctgat cgatgtgttc 2700
ttcttctgt tctcttttgc ggwtggatg gtggcctttg gcgtggccag gcaagggatc 2760
cttaggcaga atgagcagcg ctggaggtgg atattccgtt cggtcactta cgagccctac 2820
ctggccatgt tgggccaggt gccagtgac gtggatggtt ccacgtatga ctttgccac 2880
tgcacctta ctgggaatga gtccaagcca ctgtgtgtgg agctggatga gcacaacctg 2940
ccccggttc cagagtggat caccatcccc ctggtgtgca tctacatggt atccaccaac 3000
atcctgctgg tcaacctgct ggtcgccatg ttgggtaca cggtgggcac cgtccaggag 3060
aacaatgacc aggtctggaa gttccagagg tacttctgg tgcaggagta ctgcagccgc 3120
ctcaatatcc ccttcccctt catcgtcttc gcttacttct acatgggtgg gaagaagtgc 3180
ttcaagtgtt gctgcaagga gaaaaacatg gactcttctg tctgctgttt caaaaatgaa 3240
gacaatgaga ctctggcatg ggaggggtgc atgaaggaaa actaccttgt caagatcaac 3300
acaaaagcca acgacacctc agaggaaatg aggcacgat ttagacaact ggatacaaag 3360
cttaatgate tcaagggctc tctgaaagag attgctaata aaatcaaata aaactgtatg 3420
aactctaata gagaaaaatc taattatagc aagatcatat taaggaatgc tgatgaacaa 3480
ttttgctatc gactactaaa tgagagattt tcagaccctt gggtagatgg tggatgattt 3540
taaatacccc tagtgtgtg agaccttgag aataaagtgt gaagggcgaa ttctgcagat 3600
atccatcaca ctggcgccg ctcgagcatg catctagag 3639

```

&lt;210&gt; 637

&lt;211&gt; 1095

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (1)...(1095)

&lt;223&gt; Xaa = Any Amino Acid

&lt;400&gt; 637

```

Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr
          5                      10                      15

```

```

Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
          20                      25                      30

```

```

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
          35                      40                      45

```

```

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
          50                      55                      60

```

```

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
          65                      70                      75                      80

```

```

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
          85                      90                      95

```

```

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser

```

100	105	110
Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp 115 120 125		
His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys 130 135 140		
Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile 145 150 155 160		
Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His 165 170 175		
Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile 180 185 190		
Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp 195 200 205		
Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu 210 215 220		
Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro 225 230 235 240		
Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn 245 250 255		
Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu 260 265 270		
Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly 275 280 285		
Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu 290 295 300		
Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val 305 310 315 320		
Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val 325 330 335		
Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe 340 345 350		
Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp 355 360 365		
Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val 370 375 380		
Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser 385 390 395 400		
Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn 405 410 415		

Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu  
 420 425 430  
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp  
 435 440 445  
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe  
 450 455 460  
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr  
 465 470 475 480  
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val  
 485 490 495  
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu  
 500 505 510  
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys  
 515 520 525  
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val  
 530 535 540  
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile  
 545 550 555 560  
 Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg  
 565 570 575  
 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu  
 580 585 590  
 Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu  
 595 600 605  
 Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr  
 610 615 620  
 Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu  
 625 630 635 640  
 Ala Trp Gly Gly Ser Asn Cys Leu Glu Leu Ala Val Glu Ala Thr Asp  
 645 650 655  
 Gln His Phe Ile Ala Gln Pro Gly Val Gln Asn Phe Leu Ser Lys Gln  
 660 665 670  
 Trp Tyr Gly Glu Ile Ser Arg Asp Thr Lys Asn Trp Lys Ile Ile Leu  
 675 680 685  
 Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg  
 690 695 700  
 Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala  
 705 710 715 720

Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr  
 725 730 735  
 Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His  
 740 745 750  
 Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val  
 755 760 765  
 Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly Val Asn Tyr  
 770 775 780  
 Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu Phe Tyr Phe  
 785 790 795 800  
 Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys Ser Ser Leu  
 805 810 815  
 Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile Phe Thr Leu  
 820 825 830  
 Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly Pro Lys Ile  
 835 840 845  
 Ile Met Leu Gln Arg Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu  
 850 855 860  
 Phe Ala Xaa Trp Met Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu  
 865 870 875 880  
 Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr  
 885 890 895  
 Glu Pro Tyr Leu Ala Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly  
 900 905 910  
 Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys  
 915 920 925  
 Pro Leu Cys Val Glu Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu  
 930 935 940  
 Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile  
 945 950 955 960  
 Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr Val Gly Thr  
 965 970 975  
 Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu  
 980 985 990  
 Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val  
 995 1000 1005  
 Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys Cys Cys Cys  
 1010 1015 1020  
 Lys Glu Lys Asn Met Glu Ser Ser Val Cys Cys Phe Lys Asn Glu Asp

```

<400> 638
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser
          5                      10                      15

```

<400> 639  
agaatgccta ccgtgctgca gtgcgtgaac gtgtcgggtgg tgtct 45

<400> 640  
gagccagggga gccagatggg ggaggccagc ctctccgtac ggcac 45

<400> 641  
gaggccgacc aagagccagg gagccagatg gtggaggcca gcctc 45

<400> 642  
ggcctgcaca gtcttgaggc cgaccaagag ccagggagcc agatg 45

<210> 643  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 643  
tacaccatcg ggctgggcct gcacagtctt gaggccgacc aagag 45

<210> 644  
<211> 42  
<212> DNA  
<213> Homo sapiens

<400> 644  
ttccagaact cctacaccat cgggctgggc ctgcacagtc tt 42

<210> 645  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 645  
ctgtcagccg cacactgttt ccagaactcc tacaccatcg ggctg 45

<210> 646  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 646  
catccgcagt ggggtgctgtc agccgcacac tgttccaga actcc 45

<210> 647  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 647  
tcgggcgtcc tgggtgcatcc gcagtgggtg ctgtcagccg cacac 45

<210> 648  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 648  
aacgaattgt tctgctcggg cgtcctgggtg catccgcagt ggggtg 45

<210> 649  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 649  
gcactggtca tggaaaacga attgttctgc tcgggogtcc tgggtg 45

<210> 650  
<211> 51

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 650

tcgcagccct ggcaggcggc actggtcattg gaaaacgaat tgttctgctc g 51

&lt;210&gt; 651

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 651

atcagcattg ctctgcagtg ccctaccggc gggaactctt gcttc 45

&lt;210&gt; 652

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 652

tccgtgtccg agtctgacac catccggagc atcagcattg ctctg 45

&lt;210&gt; 653

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 653

atcaagttgg acgaatccgt gtccgagtct gacaccatcc ggagc 45

&lt;210&gt; 654

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 654

aacgacctca tgctcatcaa gttggacgaa tccgtgtccg agtct 45

&lt;210&gt; 655

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 655

agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaa 45

&lt;210&gt; 656

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 656

Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val Arg His  
5 10 15

&lt;210&gt; 657

&lt;211&gt; 15

<212> PRT  
<213> Homo sapiens

<400> 657  
Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu  
5 10 15

<210> 658  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 658  
Glu Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met  
5 10 15

<210> 659  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 659  
Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu  
5 10 15

<210> 660  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 660  
Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu  
5 10

<210> 661  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 661  
Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu  
5 10 15

<210> 662  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 662  
His Pro Gln Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser  
5 10 15



<210> 663  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 663  
Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His  
5 10 15

<210> 664  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 664  
Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val  
5 10 15

<210> 665  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 665  
Ala Leu Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val  
5 10 15

<210> 666  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 666  
Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe Cys  
5 10 15

Ser

<210> 667  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 667  
Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu  
5 10 15

<210> 668  
<211> 15  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 668

Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser  
5 10 15

&lt;210&gt; 669

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser  
5 10 15

&lt;210&gt; 670

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser  
5 10 15

&lt;210&gt; 671

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu  
5 10 15

&lt;210&gt; 672

&lt;211&gt; 35

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 672

ggaccagcat atgaggaaca gaaggaatga cactc

35

&lt;210&gt; 673

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 673

ccgctcgagt ccacccaag cttcacagg

29

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala  
50 55 60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp  
 65 70 75 80  
 Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp  
 85 90 95  
 Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser  
 100 105 110  
 Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp  
 115 120 125  
 His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys  
 130 135 140  
 Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile  
 145 150 155 160  
 Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His  
 165 170 175  
 Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile  
 180 185 190  
 Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp  
 195 200 205  
 Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu  
 210 215 220  
 Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro  
 225 230 235 240  
 Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn  
 245 250 255  
 Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu  
 260 265 270  
 Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly  
 275 280 285  
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu  
 290 295 300  
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val  
 305 310 315 320  
 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val  
 325 330 335  
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe  
 340 345 350  
 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp  
 355 360 365  
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val

370	375	380
Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser 385 390 395 400		
Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn 405 410 415		
Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu 420 425 430		
Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp 435 440 445		
Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe 450 455 460		
Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr 465 470 475 480		
His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val 485 490 495		
Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu 500 505 510		
Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys 515 520 525		
Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val 530 535 540		
Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile 545 550 555 560		
Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg 565 570 575		
Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu 580 585 590		
Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu 595 600 605		
Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr 610 615 620		
Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu 625 630 635 640		
Ala Trp Gly Gly Leu Glu His His His His His His 645 650		

&lt;210&gt; 676

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 676

```

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
1          5          10          15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
20          25          30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
35          40          45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
50          55          60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65          70          75          80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
85          90          95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
100         105         110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
115         120         125
Gly Pro Pro Ala
130

```

&lt;210&gt; 677

&lt;211&gt; 36

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 677

ggggaattca tgatccggga gaaatttgcc cactgc

36

&lt;210&gt; 678

&lt;211&gt; 33

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 678

gggctcgagt caggagtttg agaccagcct ggc

33

&lt;210&gt; 679

&lt;211&gt; 675

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 679

```

atgcacacc atcaccatca caaggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120

```

```

accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gtcceggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcacatcc cggtgacgtc atctcggtag cctggcaaac caagtcgggc 360
ggcagcgcta cagggaaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420
gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatggt 540
ttgtcgcaaa ataaagagag cctattttac aagatgggtg aacaactggg caaggcagaa 600
gccgctgccc tcaactgaaac agcaaaacag agatggggtt tcaccatggt ggccaggctg 660
gtctcaaaact cctga 675

```

&lt;210&gt; 680

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 680

```

atggggatcc gggagaaatt tgccactgc accgtgctaa ccattgcaca cagattgaac 60
accattattg acagcgacaa gataatggtt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttctgca aaataaagag agcctatgtt acaagatggt gcaacaactg 180
ggcaaggcag aagccgctgc cctcactgaa acagcaaaac agagatgggg ttccaccatg 240
ttggccaggc tgggtctcaaa ctccctcgag caccaccacc accaccactg a 291

```

&lt;210&gt; 681

&lt;211&gt; 1074

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 681

```

atgtcagcca ttgagagggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgctacttg atgagatata acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgcttttttg gataaggcat cagagacccc aactctacaa 180
ggcctttcct ttaactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcac cactgttaag tgccgtgctc ggggaatttg cccaagtca cgggctggtc 300
agcgtgcatg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc gggaactctg 360
aggagtaata ttttattttg gaagaaatac gaaaaggaaac gatatgaaa agtcataaag 420
gcttgtgctc tgaaaaagga tttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgctgag tggagggcag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tgttcgaact gtgtatttgt caaatttttg atgagaagat cacaatttta 660
gtgactcatc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggt 720
aaaatgggtg agaaggggac ttacactgag ttcttaaaat ctggtataga ttttggctcc 780
cttttaaaaga aggataatga ggaaagtga caacctccag ttccaggaaac tcccacacta 840
aggaatcgta ccttctcaga gtcttcggtt tgggtctcaac aatcttctag accctccttg 900
aaagatgggt ctctggagag ccaagataca gagaatgtcc cagttacact atcagaggag 960
aaccgttctg aaggaaaagt tggttttcag gcctataaga attacttcag agctgggtgct 1020
cactggattg tcttcatttt ccttattctc gagcaccacc accaccacca ctga 1074

```

&lt;210&gt; 682

&lt;211&gt; 224

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 682

```

Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
          5                      10                      15

```

```

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala

```

20 25 30  
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala  
 35 40 45  
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val  
 50 55 60  
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
 65 70 75 80  
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr  
 85 90 95  
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
 100 105 110  
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
 115 120 125  
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala  
 130 135 140  
 His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp  
 145 150 155 160  
 Ser Asp Lys Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp  
 165 170 175  
 Glu Pro Tyr Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met  
 180 185 190  
 Val Gln Gln Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala  
 195 200 205  
 Lys Gln Arg Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser  
 210 215 220

&lt;210&gt; 683

&lt;211&gt; 357

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 683

Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg  
 5 10 15

Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln  
 20 25 30

Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala  
 35 40 45

Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe



50		55		60
Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala				
65		70		75
				80
Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser				
		85	90	95
His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln				
	100		105	110
Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys				
	115		120	125
Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu				
	130		135	140
Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly				
	145		150	155
				160
Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu				
		165	170	175
Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro				
	180		185	190
Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys				
	195		200	205
Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln				
	210		215	220
Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly				
	225		230	235
				240
Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile				
		245	250	255
Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro				
	260		265	270
Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser				
	275		280	285
Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala				
	290		295	300
Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu				
	305		310	315
				320
Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe				
	325		330	335
Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His				
	340		345	350
His His His His His				
	355			

<210> 684  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 684  
Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala  
                  5                  10                  15  
His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp  
          20                  25                  30  
Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn  
          35                  40                  45  
Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu  
          50                  55                  60  
Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met  
          65                  70                  75                  80  
Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His  
          85                  90                  95

<210> 685  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer

<400> 685  
cgcccatggg gatccgggag aaatttgccc actgc 35

<210> 686  
<211> 35  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer

<400> 686  
cgccctcgagg gagtttgaga ccagcctggc caaca 35

<210> 687  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer

&lt;400&gt; 687

gcatggacca tatgtcagcc attgagaggg tgtcagag

38

&lt;210&gt; 688

&lt;211&gt; 34

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 688

ccgctcgaga ataaggaaaa tgaagacaat ccag

34

&lt;210&gt; 689

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 689

gttgaattca tgcacggggc ccaggtg

27

&lt;210&gt; 690

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer

&lt;400&gt; 690

cccctcgagt cactatggtc tgcctcttga

30

&lt;210&gt; 691

&lt;211&gt; 915

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 691

atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60  
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
accgttcata tggggcctac cgccttcttc ggcttgggtg ttgtcgacaa caacggcaac 180  
ggcgacagag tccaacgcgt ggtcgggagc gtcggcgcg caagtctcgg catctccacc 240  
ggcgacgtga tcaccgcgt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
gcgcttaacg ggcacatcc cgggtgacgtc atctcggtga cctggcaaac caagtccggc 360  
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420  
cccaggtgc tggcacgctg ctccgagtgt gcttgtcctg ccttggctgc cacctctgcg 480  
gggtgctgc tggaggggtg ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540  
ccatgttccc acagcctgag tggtgccac ctgatggctg atggagcaaa ggccttagga 600  
aaagcagatg gcccttgccc ctacctttt gttagaagaa ctgatgttcc atgtcctgca 660  
gcgagtgagg ttggtggctg tgccccagc tcctggcgcg ccctcgaga ggtgactggt 720

```
<210> 692
<211> 304
<212> PRT
<213> Homo sapiens
```

<400> 692

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu  
5 10 15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala  
20 25 30

Ile Ala Gly Gln Ile Lys Leu Pro-Thr Val His Ile Gly Pro Thr Ala  
35 40 45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val  
50 55 60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
65 70 75 80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr  
85 90 95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
100 105 110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
115 120 125

: Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu  
130 135 140

Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala  
145 150 155 160

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln  
165 170 175

Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met  
180 185 190

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr  
195 200 205

Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val  
210 215 220

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly  
225 230 235 240

Cys Ser Leu Gly Pro Leu Gly Leu Ala Gln His Ala Gln Ala Ser Val  
245 250 255

Leu Leu Leu Cys Tyr Lys Trp Ser His Ile Gly Glu Thr Ser Ser His  
                   260                                  265                                  270

Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu  
                   275                                  280                                  285

Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro  
                   290                                  295                                  300

<210> 693

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 693

cgaagtcacg tggaggccag cctc

24

<210> 694

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 694

cctgaccgaa ttcattaact ggcctggac

29

<210> 695

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(166)

<223> Xaa = Any Amino Acid

<400> 695

Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg  
   1                                  5                                  10                                  15  
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile  
                   20                                  25                                  30  
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser  
                   35                                  40                                  45  
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly  
                   50                                  55                                  60  
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val  
                   65                                  70                                  75                                  80  
 Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp Pro

<210> 699